



September 09, 2021

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TEL (520) 400-0085  
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Work Order No.: 21H0539  
Order Name: Baseline Stormwater  
Monitoring

RE: Baseline Stormwater Monitoring

Dear Andy Warnick,

Turner Laboratories, Inc. received 16 sample(s) on 08/18/2021 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.  
ADHS License AZ0066

Elizabeth Kasik  
Laboratory Director

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

**Order: Baseline Stormwater Monitoring**

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
21H0539-01	D4B1A-081321	Storm Water	08/13/2021 1953
21H0539-02	D4B1B-081321	Storm Water	08/13/2021 1953
21H0539-03	TTB2-081321	Storm Water	08/13/2021 1953
21H0539-04	TTB1-081321	Storm Water	08/13/2021 1953
21H0539-05	TTB3-081321	Storm Water	08/13/2021 1953
21H0539-06	TTA1-081321	Storm Water	08/13/2021 1953
21H0539-07	TTA2-081321	Storm Water	08/13/2021 1953
21H0539-08	TTA3-081321	Storm Water	08/13/2021 1953
21H0539-09	D4-081621	Storm Water	08/16/2021 2107
21H0539-10	D2-081621	Storm Water	08/16/2021 2124
21H0539-11	D5-081621	Storm Water	08/16/2021 2124
21H0539-12	AS-081621	Storm Water	08/16/2021 2124
21H0539-13	BS-081621	Storm Water	08/16/2021 2124
21H0539-14	D11-081621	Storm Water	08/16/2021 2124
21H0539-15	D13-081621	Storm Water	08/16/2021 2124
21H0539-16	D15-081621	Storm Water	08/16/2021 2124

**Client:** Rosemont Copper Company  
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**Date Received:** 08/18/2021

**Case Narrative**

Alkalinity analysis was not reported for TTB1-081321 due to matrix interference. The pH was less than 4.5.

Then Ion Balance could not be calculated for TTB1-081321 due to not obtaining a Alkalinity result.

- C4 Confirmatory analysis was past holding time
- D1 Sample required dilution due to matrix.
- E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
- E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
- H1 Sample analysis was performed past holding time.
- H3 Sample was received and/or analysis requested past holding time.
- H5 This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
- M1 Matrix spike recovery was high; the associated LCS/LCSD was acceptable.
- M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
- M6 Matrix spike recovery was high. Data reported per ADEQ policy 0154.000. Matrix interference was confirmed.
- M7 Matrix spike recovery was low. Data reported per ADEQ policy 0154.000. Matrix interference was confirmed.
- N4 The Minimum Reporting Limit (MRL) verification check did not meet laboratory acceptance limits.
- Q9 Insufficient sample received to meet method QC requirements.
- R12 RPD/RSD exceeded the method acceptance limit. Result less than 5 times the PQL.
- R13 MS/MSD RPD exceeded method acceptance limit. Matrix spike recovery was outside acceptance criteria. Batch precision and accuracy were demonstrated.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

- ND Not Detected at or above the PQL
- PQL Practical Quantitation Limit
- DF Dilution Factor

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-01

**Client Sample ID:** D4B1A-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	74		22		mg/L	1	08/30/2021 0950	08/31/2021 1010	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	520				mg/L	1	08/31/2021 1000	09/01/2021 0929	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	9.6				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	0.65		0.10		mg/L	1	08/19/2021 0752	08/19/2021 2025	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.023	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1010	MH
Calcium	29		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1010	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1010	MH
Magnesium	ND		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1010	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1010	MH
Silica	9.8		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1010	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1010	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Antimony	0.0011		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Arsenic	0.0021		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Barium	0.012		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Copper	0.046		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Manganese	0.024		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Molybdenum	0.0083		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR

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**Client Sample ID:** D4B1A-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nickel	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Selenium	0.00068	0.00025	0.0025	E4, M1	mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Silver	0.00012	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Thallium	ND	0.000023	0.00050	E8	mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1445	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.000034	0.0000041	0.0010	E4	mg/L	1	08/30/2021 1411	08/30/2021 1627	RAD
<b>Turbidity-E180.1</b>									
Turbidity	11		0.10	H3	NTU	1	08/19/2021 1510	08/19/2021 1600	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.090	0.0032	0.10	E4	mg/L	1	08/31/2021 1000	09/01/2021 0930	MH
Calcium	140		4.0		mg/L	1	08/31/2021 1000	09/01/2021 0929	MH
Iron	58		0.30		mg/L	1	08/31/2021 1000	09/01/2021 0929	MH
Magnesium	41		3.0		mg/L	1	08/31/2021 1000	09/01/2021 0929	MH
Potassium	12		5.0		mg/L	1	08/31/2021 1000	09/01/2021 0929	MH
Silica	150		2.0		mg/L	10	08/31/2021 1000	09/01/2021 1003	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 0929	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	37		4.0		mg/L	100	08/31/2021 1045	09/02/2021 1707	CR
Antimony	0.0013		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1433	CR
Arsenic	0.015		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1433	CR
Barium	0.23		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1433	CR
Beryllium	0.0043		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1433	CR
Cadmium	0.0036		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1433	CR
Chromium	0.027		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1433	CR
Cobalt	0.0216		0.000250		mg/L	1	08/31/2021 1045	09/02/2021 1433	CR
Copper	13		0.050		mg/L	100	08/31/2021 1045	09/02/2021 1707	CR
Lead	0.076		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1433	CR
Manganese	4.2		0.025		mg/L	100	08/31/2021 1045	09/02/2021 1707	CR
Molybdenum	0.036		0.025		mg/L	100	08/31/2021 1045	09/02/2021 1707	CR
Nickel	0.051		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1433	CR
Selenium	0.044		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1433	CR
Silver	0.011		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1433	CR

**Client:** Rosemont Copper Company  
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**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-01

**Client Sample ID:** D4B1A-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	0.00067		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1433	CR
Uranium	0.0043		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1433	CR
Zinc	ND		4.0		mg/L	100	08/31/2021 1045	09/02/2021 1707	CR

**CVAA Total Mercury-E245.1**

Mercury	ND	0.00036	0.0010	E8	mg/L	1	08/30/2021 1412	08/30/2021 1713	CWB
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**Anions by Ion Chromatography-E300.0 (2.1)**

Chloride	1.0		1.0		mg/L	1	08/19/2021 0752	08/19/2021 2025	JG
Fluoride	ND		0.50		mg/L	1	08/19/2021 0752	08/19/2021 2025	JG
Nitrogen, Nitrate (As N)	0.65		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2025	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/19/2021 2025	JG
Phosphorus, Dissolved Orthophosphate (As P)	0.60		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2025	JG
Sulfate	ND		5.0	M2	mg/L	1	08/19/2021 0752	08/19/2021 2025	JG

**Calculation-Ion Balance**

Anion	3.86				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	1.45				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	45.4				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB

**Total Kjeldahl Nitrogen-PAI-DK01**

Nitrogen, Total Kjeldahl	8.9		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
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**Alkalinity-SM2320B**

Alkalinity, Bicarbonate (As CaCO3)	180		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Total (As CaCO3)	180		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG

**Specific Conductance-SM2510 B**

Conductivity	130		0.10		µmhos/cm	1	08/25/2021 1527	08/25/2021 1610	CWB
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**Total Dissolved Solids (Residue, Filterable)-SM2540 C**

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**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-01

**Client Sample ID:** D4B1A-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst	
<b>Total Dissolved Solids (Residue, Filterable)</b>										
Total Dissolved Solids (Residue, Filterable)	150		20	C4	mg/L	1	08/26/2021 0846	08/30/2021 0921	AGC	
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>										
Total Suspended Solids	1200		10		mg/L	1	08/18/2021 1300	08/20/2021 1345	AGC	
<b>Ammonia as N-SM4500-NH3 B,C</b>										
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG	
<b>Silica-SM4500-SiO2 C</b>										
Silica	7.1		2.0		mg/L	1	08/23/2021 1500	08/23/2021 1710	AGC	
<b>pH-SW9045D</b>										
pH (pH Units)	8.2			H5	-	1	08/23/2021 1210	08/23/2021 1325	CWB	
Temperature (°C)	20			H5	-	1	08/23/2021 1210	08/23/2021 1325	CWB	

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-02

**Client Sample ID:** D4B1B-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	74		22		mg/L	1	08/30/2021 0950	08/31/2021 1031	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	570				mg/L	1	08/31/2021 1000	09/01/2021 0933	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	8.5				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	1.4		0.10		mg/L	1	08/19/2021 0752	08/19/2021 2043	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.025	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1031	MH
Calcium	30		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1031	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1031	MH
Magnesium	ND		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1031	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1031	MH
Silica	11		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1031	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1031	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Antimony	0.00095		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Arsenic	0.0019		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Barium	0.0087		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Copper	0.077		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Manganese	0.026		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Molybdenum	0.010		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Nickel	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Selenium	0.00076	0.00025	0.0025	E4	mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Silver	0.00012	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1509	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-02

**Client Sample ID:** D4B1B-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	0.0000260.000023		0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1509	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.0000260.0000041		0.0010	E4	mg/L	1	08/30/2021 1411	08/30/2021 1629	RAD
<b>Turbidity-E180.1</b>									
Turbidity	14		0.10	H3	NTU	1	08/19/2021 1510	08/19/2021 1600	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.099	0.0032	0.10	E4	mg/L	1	08/31/2021 1000	09/01/2021 0934	MH
Calcium	160		4.0		mg/L	1	08/31/2021 1000	09/01/2021 0933	MH
Iron	74		0.30		mg/L	1	08/31/2021 1000	09/01/2021 0933	MH
Magnesium	44		3.0		mg/L	1	08/31/2021 1000	09/01/2021 0933	MH
Potassium	12		5.0		mg/L	1	08/31/2021 1000	09/01/2021 0933	MH
Silica	140		2.0		mg/L	10	08/31/2021 1000	09/01/2021 1007	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 0933	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	35		4.0		mg/L	100	08/31/2021 1045	09/02/2021 1710	CR
Antimony	0.0011		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1436	CR
Arsenic	0.014		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1436	CR
Barium	0.19		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1436	CR
Beryllium	0.0049		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1436	CR
Cadmium	0.0043		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1436	CR
Chromium	0.027		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1436	CR
Cobalt	0.0204		0.000250		mg/L	1	08/31/2021 1045	09/02/2021 1436	CR
Copper	17		0.050		mg/L	100	08/31/2021 1045	09/02/2021 1710	CR
Lead	0.099		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1436	CR
Manganese	4.5		0.025		mg/L	100	08/31/2021 1045	09/02/2021 1710	CR
Molybdenum	0.034		0.025		mg/L	100	08/31/2021 1045	09/02/2021 1710	CR
Nickel	0.064		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1436	CR
Selenium	0.032		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1436	CR
Silver	0.013		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1436	CR
Thallium	0.00063		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1436	CR
Uranium	0.0048		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1436	CR
Zinc	ND		4.0		mg/L	100	08/31/2021 1045	09/02/2021 1710	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-02

**Client Sample ID:** D4B1B-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>CVAA Total Mercury-E245.1</b>									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	08/30/2021 1412	08/30/2021 1716	CWB
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	1.2		1.0		mg/L	1	08/19/2021 0752	08/19/2021 2043	JG
Fluoride	ND		0.50		mg/L	1	08/19/2021 0752	08/19/2021 2043	JG
Nitrogen, Nitrate (As N)	1.3		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2043	JG
Nitrogen, Nitrite (As N)	0.10		0.10	H3	mg/L	1	08/19/2021 0752	08/19/2021 2043	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2043	JG
Sulfate	6.7		5.0		mg/L	1	08/19/2021 0752	08/19/2021 2043	JG
<b>Calculation-Ion Balance</b>									
Anion	6.08				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	1.50				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	60.4				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	7.2		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Alkalinity-SM2320B</b>									
Alkalinity, Bicarbonate (As CaCO3)	280		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Total (As CaCO3)	280		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
<b>Specific Conductance-SM2510 B</b>									
Conductivity	160		0.10		µmhos/cm	1	08/25/2021 1527	08/25/2021 1610	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	140		20	C4	mg/L	1	08/26/2021 0846	08/30/2021 0921	AGC

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-02

**Client Sample ID:** D4B1B-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	2000		10		mg/L	1	08/18/2021 1300	08/20/2021 1345	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	8.0		2.0		mg/L	1	08/23/2021 1500	08/23/2021 1710	AGC
<b>pH-SW9045D</b>									
pH (pH Units)	8.2			H5	-	1	08/23/2021 1210	08/23/2021 1326	CWB
Temperature (°C)	21			H5	-	1	08/23/2021 1210	08/23/2021 1326	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-03

**Client Sample ID:** TTB2-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	78		22		mg/L	1	08/30/2021 0950	08/31/2021 1034	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	670				mg/L	1	08/31/2021 1000	09/01/2021 0937	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	12				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	0.60		0.10		mg/L	1	08/19/2021 0752	08/19/2021 2101	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.021	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1034	MH
Calcium	31		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1034	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1034	MH
Magnesium	ND		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1034	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1034	MH
Silica	7.5		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1034	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1034	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Antimony	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Arsenic	0.00053		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Barium	0.0062		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Copper	0.057		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Manganese	0.015		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Molybdenum	0.0062		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Nickel	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Selenium	0.00070	0.00025	0.0025	E4	mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Silver	0.000070	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1513	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-03

**Client Sample ID:** TTB2-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1513	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.0000150	0.0000041	0.0010	E4	mg/L	1	08/30/2021 1411	08/30/2021 1632	RAD
<b>Turbidity-E180.1</b>									
Turbidity	28		0.10	H3	NTU	1	08/19/2021 1510	08/19/2021 1600	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.14		0.10		mg/L	1	08/31/2021 1000	09/01/2021 0938	MH
Calcium	220		4.0		mg/L	1	08/31/2021 1000	09/01/2021 0937	MH
Iron	160		3.0		mg/L	10	08/31/2021 1000	09/01/2021 1010	MH
Magnesium	32		3.0		mg/L	1	08/31/2021 1000	09/01/2021 0937	MH
Potassium	15		5.0		mg/L	1	08/31/2021 1000	09/01/2021 0937	MH
Silica	150		2.0		mg/L	10	08/31/2021 1000	09/01/2021 1011	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 0938	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	39		4.0		mg/L	100	08/31/2021 1045	09/02/2021 1714	CR
Antimony	0.0012		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1440	CR
Arsenic	0.013		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1440	CR
Barium	0.17		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1440	CR
Beryllium	0.0068		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1440	CR
Cadmium	0.0077		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1440	CR
Chromium	0.031		0.0050		mg/L	10	08/31/2021 1045	09/02/2021 1813	CR
Cobalt	0.0280		0.00250		mg/L	10	08/31/2021 1045	09/02/2021 1813	CR
Copper	25		0.050		mg/L	100	08/31/2021 1045	09/02/2021 1714	CR
Lead	0.18		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1440	CR
Manganese	5.1		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1813	CR
Molybdenum	0.046		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1813	CR
Nickel	0.029		0.0050		mg/L	10	08/31/2021 1045	09/02/2021 1813	CR
Selenium	0.029		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1440	CR
Silver	0.021		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1440	CR
Thallium	0.00077		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1440	CR
Uranium	0.0051		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1440	CR
Zinc	2.4		0.40		mg/L	10	08/31/2021 1045	09/02/2021 1813	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-03

**Client Sample ID:** TTB2-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>CVAA Total Mercury-E245.1</b>									
Mercury	0.00050	0.00036	0.0010	E4	mg/L	1	09/01/2021 1448	09/01/2021 1650	CR
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	1.0		1.0		mg/L	1	08/19/2021 0752	08/19/2021 2101	JG
Fluoride	ND		0.50		mg/L	1	08/19/2021 0752	08/19/2021 2101	JG
Nitrogen, Nitrate (As N)	0.60		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2101	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/19/2021 2101	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2101	JG
Sulfate	14		5.0		mg/L	1	08/19/2021 0752	08/19/2021 2101	JG
<b>Calculation-Ion Balance</b>									
Anion	2.03				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	1.55				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	13.5				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	12		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Alkalinity-SM2320B</b>									
Alkalinity, Bicarbonate (As CaCO3)	76		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Total (As CaCO3)	76		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
<b>Specific Conductance-SM2510 B</b>									
Conductivity	150		0.10		µmhos/cm	1	08/25/2021 1527	08/25/2021 1610	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	140		20	C4	mg/L	1	08/26/2021 0846	08/30/2021 0921	AGC

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-03

**Client Sample ID:** TTB2-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	360		10		mg/L	1	08/18/2021 1300	08/20/2021 1345	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	5.7		2.0		mg/L	1	08/23/2021 1500	08/23/2021 1710	AGC
<b>pH-SW9045D</b>									
pH (pH Units)	8.0			H5	-	1	08/23/2021 1210	08/23/2021 1330	CWB
Temperature (°C)	18			H5	-	1	08/23/2021 1210	08/23/2021 1330	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-04

**Client Sample ID:** TTB1-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	1300		22		mg/L	1	08/30/2021 0950	08/31/2021 1037	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	1100				mg/L	1	08/31/2021 1000	09/01/2021 1014	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	5.6				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	08/19/2021 0752	08/19/2021 2119	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.022	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1037	MH
Calcium	400		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1037	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1037	MH
Magnesium	73		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1037	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1037	MH
Silica	17		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1037	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1037	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	24		4.0		mg/L	100	08/27/2021 1500	09/01/2021 1612	CR
Antimony	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1516	CR
Arsenic	0.0014		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1516	CR
Barium	0.013		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1516	CR
Beryllium	0.0089		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1516	CR
Cadmium	0.047		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1516	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1516	CR
Cobalt	0.12		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1516	CR
Copper	60		0.050		mg/L	100	08/27/2021 1500	09/01/2021 1612	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1516	CR
Manganese	12		0.025		mg/L	100	08/27/2021 1500	09/01/2021 1612	CR
Molybdenum	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1516	CR
Nickel	0.053		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1516	CR
Selenium	0.033		0.0025		mg/L	1	08/27/2021 1500	09/01/2021 1516	CR
Silver	0.00011	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1516	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-04

**Client Sample ID:** TTB1-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	0.0000670.000023		0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1516	CR
Zinc	7.3		4.0		mg/L	100	08/27/2021 1500	09/01/2021 1612	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.0000200.0000041		0.0010	E4	mg/L	1	08/30/2021 1411	08/30/2021 1635	RAD
<b>Turbidity-E180.1</b>									
Turbidity	26		0.10	H3	NTU	1	08/19/2021 1510	08/19/2021 1600	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.12		0.10		mg/L	1	08/31/2021 1000	09/01/2021 1015	MH
Calcium	350		4.0		mg/L	1	08/31/2021 1000	09/01/2021 1014	MH
Iron	130		3.0		mg/L	10	08/31/2021 1000	09/01/2021 1114	MH
Magnesium	65		3.0		mg/L	1	08/31/2021 1000	09/01/2021 1014	MH
Potassium	11		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1014	MH
Silica	120		2.0		mg/L	10	08/31/2021 1000	09/01/2021 1115	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1014	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	49		4.0		mg/L	100	08/31/2021 1045	09/02/2021 1717	CR
Antimony	0.0026		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1443	CR
Arsenic	0.018		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1443	CR
Barium	0.079		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1443	CR
Beryllium	0.0096		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1443	CR
Cadmium	0.038		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1443	CR
Chromium	0.017		0.0050		mg/L	10	08/31/2021 1045	09/02/2021 1816	CR
Cobalt	0.117		0.00250		mg/L	10	08/31/2021 1045	09/02/2021 1816	CR
Copper	69		0.050		mg/L	100	08/31/2021 1045	09/02/2021 1717	CR
Lead	0.17		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1443	CR
Manganese	12		0.025		mg/L	100	08/31/2021 1045	09/02/2021 1717	CR
Molybdenum	0.056		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1816	CR
Nickel	0.060		0.0050		mg/L	10	08/31/2021 1045	09/02/2021 1816	CR
Selenium	0.062		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1443	CR
Silver	0.014		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1443	CR
Thallium	0.00069		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1443	CR
Uranium	0.021		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1443	CR
Zinc	8.0		0.40		mg/L	10	08/31/2021 1045	09/02/2021 1816	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-04

**Client Sample ID:** TTB1-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>CVAA Total Mercury-E245.1</b>									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/01/2021 1448	09/01/2021 1653	CR
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	ND		1.0		mg/L	1	08/19/2021 0752	08/19/2021 2119	JG
Fluoride	0.91		0.50		mg/L	1	08/19/2021 0752	08/19/2021 2119	JG
Nitrogen, Nitrate (As N)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2119	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/19/2021 2119	JG
Phosphorus, Dissolved	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2119	JG
Orthophosphate (As P)									
Sulfate	4600		500		mg/L	100	08/19/2021 0752	08/25/2021 1618	JG
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	5.6		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Specific Conductance-SM2510 B</b>									
Conductivity	8300		2.5		µmhos/cm	25	08/25/2021 1527	08/25/2021 1610	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	4700		20	C4	mg/L	1	08/26/2021 0846	09/01/2021 1146	AGC
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	1500		10		mg/L	1	08/18/2021 1300	08/20/2021 1345	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	0.81		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	26		10		mg/L	5	08/31/2021 1100	08/31/2021 1430	AGC
<b>pH-SW9045D</b>									
pH (pH Units)	3.2			H5	-	1	08/23/2021 1210	08/23/2021 1331	CWB
Temperature (°C)	18			H5	-	1	08/23/2021 1210	08/23/2021 1331	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-04

**Client Sample ID:** TTB1-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

<b>Analyses</b>	<b>Result</b>	<b>MDL</b>	<b>PQL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Prep Date</b>	<b>Analysis Date</b>	<b>Analyst</b>
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**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-05

**Client Sample ID:** TTB3-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	400		22		mg/L	1	08/30/2021 0950	08/31/2021 1040	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	770				mg/L	1	08/31/2021 1000	09/01/2021 1018	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	15				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	08/19/2021 0752	08/19/2021 2137	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.041	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1040	MH
Calcium	140		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1040	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1040	MH
Magnesium	11		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1040	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1040	MH
Silica	10		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1040	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1040	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Antimony	0.00065		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Arsenic	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Barium	0.013		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Copper	0.024		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Manganese	0.034		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Molybdenum	0.030		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Nickel	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Selenium	0.0026		0.0025		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Silver	0.000075	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1520	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-05

**Client Sample ID:** TTB3-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1520	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.0000180	0.0000041	0.0010	E4	mg/L	1	08/30/2021 1411	08/30/2021 1637	RAD
<b>Turbidity-E180.1</b>									
Turbidity	20		0.10	H3	NTU	1	08/19/2021 1510	08/19/2021 1600	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.12		0.10		mg/L	1	08/31/2021 1000	09/01/2021 1019	MH
Calcium	250		4.0		mg/L	1	08/31/2021 1000	09/01/2021 1018	MH
Iron	130		3.0		mg/L	10	08/31/2021 1000	09/01/2021 1118	MH
Magnesium	33		3.0		mg/L	1	08/31/2021 1000	09/01/2021 1018	MH
Potassium	12		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1018	MH
Silica	130		2.0		mg/L	10	08/31/2021 1000	09/01/2021 1119	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1018	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	27		4.0	M2	mg/L	100	08/31/2021 1045	09/02/2021 1646	CR
Antimony	0.0015		0.00050	M2	mg/L	1	08/31/2021 1045	09/02/2021 1414	CR
Arsenic	0.015		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1414	CR
Barium	0.11		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1414	CR
Beryllium	0.0038		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1414	CR
Cadmium	0.0037		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1414	CR
Chromium	0.021		0.0050		mg/L	10	08/31/2021 1045	09/02/2021 1653	CR
Cobalt	0.0135		0.00250		mg/L	10	08/31/2021 1045	09/02/2021 1653	CR
Copper	16		0.050	M2	mg/L	100	08/31/2021 1045	09/02/2021 1646	CR
Lead	0.15		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1414	CR
Manganese	2.7		0.0025	M2	mg/L	10	08/31/2021 1045	09/02/2021 1653	CR
Molybdenum	0.062		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1653	CR
Nickel	0.023		0.0050		mg/L	10	08/31/2021 1045	09/02/2021 1653	CR
Selenium	0.021		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1414	CR
Silver	0.021		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1414	CR
Thallium	0.00099		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1414	CR
Uranium	0.0045		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1414	CR
Zinc	1.7		0.40	M2	mg/L	10	08/31/2021 1045	09/02/2021 1653	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-05

**Client Sample ID:** TTB3-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>CVAA Total Mercury-E245.1</b>									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/01/2021 1448	09/01/2021 1656	CR
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	ND		1.0		mg/L	1	08/19/2021 0752	08/19/2021 2137	JG
Fluoride	7.4		5.0		mg/L	10	08/19/2021 0752	08/25/2021 1637	JG
Nitrogen, Nitrate (As N)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2137	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/19/2021 2137	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2137	JG
Sulfate	1200		500		mg/L	100	08/19/2021 0752	08/25/2021 1656	JG
<b>Calculation-Ion Balance</b>									
Anion	31.6				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	7.89				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	60.0				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	15		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Alkalinity-SM2320B</b>									
Alkalinity, Bicarbonate (As CaCO3)	300		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Total (As CaCO3)	300		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
<b>Specific Conductance-SM2510 B</b>									
Conductivity	2900		2.5		µmhos/cm	25	08/25/2021 1527	08/25/2021 1610	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	1600		20	C4	mg/L	1	08/26/2021 0846	08/30/2021 0921	AGC

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-05

**Client Sample ID:** TTB3-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	2500		10		mg/L	1	08/18/2021 1300	08/20/2021 1345	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	8.3		2.0		mg/L	1	08/31/2021 1100	08/31/2021 1430	AGC
<b>pH-SW9045D</b>									
pH (pH Units)	6.8			H5	-	1	08/23/2021 1210	08/23/2021 1322	CWB
Temperature (°C)	20			H5	-	1	08/23/2021 1210	08/23/2021 1322	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-06

**Client Sample ID:** TTA1-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	94		22		mg/L	1	08/30/2021 0950	08/31/2021 1043	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	60				mg/L	1	08/31/2021 1000	09/01/2021 0921	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	8.2				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	1.1		0.10		mg/L	1	08/19/2021 0752	08/19/2021 2155	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.027	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1043	MH
Calcium	38		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1043	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1043	MH
Magnesium	ND		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1043	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1043	MH
Silica	6.8		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1043	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1043	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Antimony	0.00071		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Arsenic	0.0017		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Barium	0.026		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Copper	0.047		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Manganese	0.26		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Molybdenum	0.0055		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Nickel	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Selenium	0.00098	0.00025	0.0025	E4	mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Silver	0.000047	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1523	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-06

**Client Sample ID:** TTA1-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1523	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.0000670	0.0000041	0.0010	E4	mg/L	1	09/02/2021 0850	09/02/2021 1255	MH
<b>Turbidity-E180.1</b>									
Turbidity	34		0.10	H3	NTU	1	08/19/2021 1510	08/19/2021 1600	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.043	0.0032	0.10	E4	mg/L	1	08/31/2021 1000	09/01/2021 0922	MH
Calcium	24		4.0		mg/L	1	08/31/2021 1000	09/01/2021 0921	MH
Iron	17		0.30		mg/L	1	08/31/2021 1000	09/01/2021 0921	MH
Magnesium	ND		3.0		mg/L	1	08/31/2021 1000	09/01/2021 0921	MH
Potassium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 0921	MH
Silica	17		0.20	M7	mg/L	1	08/31/2021 1000	09/01/2021 0922	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 0921	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	3.0		0.40		mg/L	10	08/31/2021 1045	09/02/2021 1721	CR
Antimony	ND		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1446	CR
Arsenic	0.0024		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1446	CR
Barium	0.046		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1446	CR
Beryllium	0.00032		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1446	CR
Cadmium	0.00045		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1446	CR
Chromium	0.0044		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1446	CR
Cobalt	0.00247		0.000250		mg/L	1	08/31/2021 1045	09/02/2021 1446	CR
Copper	1.5		0.0050		mg/L	10	08/31/2021 1045	09/02/2021 1721	CR
Lead	0.026		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1446	CR
Manganese	0.21		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1721	CR
Molybdenum	0.0060		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1721	CR
Nickel	0.0034		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1446	CR
Selenium	0.0056		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1446	CR
Silver	0.0030		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1446	CR
Thallium	0.00016	0.000023	0.00050	E4	mg/L	1	08/31/2021 1045	09/02/2021 1446	CR
Uranium	0.00082		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1446	CR
Zinc	0.10		0.040		mg/L	1	08/31/2021 1045	09/02/2021 1446	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-06

**Client Sample ID:** TTA1-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>CVAA Total Mercury-E245.1</b>									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/01/2021 1448	09/01/2021 1658	CR
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	1.1		1.0		mg/L	1	08/19/2021 0752	08/19/2021 2155	JG
Fluoride	ND		0.50		mg/L	1	08/19/2021 0752	08/19/2021 2155	JG
Nitrogen, Nitrate (As N)	1.1		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2155	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/19/2021 2155	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2155	JG
Sulfate	40		5.0		mg/L	1	08/19/2021 0752	08/19/2021 2155	JG
<b>Calculation-Ion Balance</b>									
Anion	2.16				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	1.91				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	6.20				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	7.2		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Alkalinity-SM2320B</b>									
Alkalinity, Bicarbonate (As CaCO3)	54		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Total (As CaCO3)	54		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
<b>Specific Conductance-SM2510 B</b>									
Conductivity	220		0.10		µmhos/cm	1	08/25/2021 1527	08/25/2021 1610	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	170		20	C4	mg/L	1	08/26/2021 0846	08/30/2021 0921	AGC

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-06

**Client Sample ID:** TTA1-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	220		10		mg/L	1	08/20/2021 0919	08/23/2021 1605	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	5.2		2.0		mg/L	1	08/31/2021 1100	08/31/2021 1430	AGC
<b>pH-SW9045D</b>									
pH (pH Units)	7.5			H5	-	1	08/26/2021 1520	08/26/2021 1525	CWB
Temperature (°C)	22			H5	-	1	08/26/2021 1520	08/26/2021 1525	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-07

**Client Sample ID:** TTA2-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	130		22		mg/L	1	08/30/2021 0950	08/31/2021 0952	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	150				mg/L	1	08/31/2021 1000	09/01/2021 1024	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	6.0				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	0.87		0.10		mg/L	1	08/19/2021 0752	08/19/2021 2213	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.024	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 0952	MH
Calcium	46		4.0		mg/L	1	08/30/2021 0950	08/31/2021 0952	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 0952	MH
Magnesium	4.6		3.0		mg/L	1	08/30/2021 0950	08/31/2021 0952	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 0952	MH
Silica	4.6		0.20		mg/L	1	08/30/2021 0950	08/31/2021 0952	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 0952	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Antimony	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Arsenic	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Barium	0.019		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Cadmium	0.0011		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Chromium	0.0011		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Cobalt	0.0036		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Copper	0.15		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Manganese	0.52		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Molybdenum	0.0030		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Nickel	0.0036		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Selenium	0.0017	0.00025	0.0025	E4	mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Silver	0.000022	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1527	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-07

**Client Sample ID:** TTA2-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	0.000039	0.000023	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
Zinc	0.20		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1527	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.000048	0.0000041	0.0010	E4	mg/L	1	09/02/2021 0850	09/02/2021 1257	MH
<b>Turbidity-E180.1</b>									
Turbidity	130		1.0	H3	NTU	10	08/24/2021 1700	08/24/2021 1725	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.044	0.0032	0.10	E4	mg/L	1	08/31/2021 1000	09/01/2021 1025	MH
Calcium	49		4.0		mg/L	1	08/31/2021 1000	09/01/2021 1024	MH
Iron	14		0.30		mg/L	1	08/31/2021 1000	09/01/2021 1024	MH
Magnesium	6.9		3.0		mg/L	1	08/31/2021 1000	09/01/2021 1024	MH
Potassium	5.2		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1024	MH
Silica	26		0.20		mg/L	1	08/31/2021 1000	09/01/2021 1025	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1024	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	6.9		0.40		mg/L	10	08/31/2021 1045	09/02/2021 1724	CR
Antimony	ND		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1450	CR
Arsenic	0.0029		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1450	CR
Barium	0.069		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1450	CR
Beryllium	0.00058		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1450	CR
Cadmium	0.0017		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1450	CR
Chromium	0.0073		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1450	CR
Cobalt	0.0132		0.000250		mg/L	1	08/31/2021 1045	09/02/2021 1450	CR
Copper	2.1		0.0050		mg/L	10	08/31/2021 1045	09/02/2021 1724	CR
Lead	0.015		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1450	CR
Manganese	0.90		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1724	CR
Molybdenum	0.020		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1724	CR
Nickel	0.0092		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1450	CR
Selenium	0.0066		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1450	CR
Silver	0.0014		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1450	CR
Thallium	0.00018	0.000023	0.00050	E4	mg/L	1	08/31/2021 1045	09/02/2021 1450	CR
Uranium	0.00067		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1450	CR
Zinc	0.36		0.040		mg/L	1	08/31/2021 1045	09/02/2021 1450	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-07

**Client Sample ID:** TTA2-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>CVAA Total Mercury-E245.1</b>									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/01/2021 1448	09/01/2021 1706	CR
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	1.4		1.0		mg/L	1	08/19/2021 0752	08/19/2021 2213	JG
Fluoride	0.53		0.50		mg/L	1	08/19/2021 0752	08/19/2021 2213	JG
Nitrogen, Nitrate (As N)	0.87		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2213	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/19/2021 2213	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2213	JG
Sulfate	57		5.0		mg/L	1	08/19/2021 0752	08/19/2021 2213	JG
<b>Calculation-Ion Balance</b>									
Anion	2.51				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	2.70				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	3.75				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	5.2		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Alkalinity-SM2320B</b>									
Alkalinity, Bicarbonate (As CaCO3)	50		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Total (As CaCO3)	50		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
<b>Specific Conductance-SM2510 B</b>									
Conductivity	220		0.10		µmhos/cm	1	08/25/2021 1527	08/25/2021 1610	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	180		20	C4	mg/L	1	08/26/2021 0846	09/01/2021 1625	AGC

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-07

**Client Sample ID:** TTA2-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	180		10		mg/L	1	08/20/2021 0919	08/23/2021 1605	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	7.3		2.0		mg/L	1	08/31/2021 1100	08/31/2021 1430	AGC
<b>pH-SW9045D</b>									
pH (pH Units)	7.3			H5	-	1	08/26/2021 1520	08/26/2021 1527	CWB
Temperature (°C)	22			H5	-	1	08/26/2021 1520	08/26/2021 1527	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-08

**Client Sample ID:** TTA3-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	210		22		mg/L	1	08/30/2021 0950	08/31/2021 1046	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	390				mg/L	1	08/31/2021 1000	09/01/2021 1028	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	24				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	08/19/2021 0752	08/19/2021 2232	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.027	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1046	MH
Calcium	75		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1046	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1046	MH
Magnesium	4.1		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1046	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1046	MH
Silica	7.0		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1046	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1046	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Antimony	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Arsenic	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Barium	0.022		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Copper	0.043		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Manganese	0.019		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Molybdenum	0.034		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Nickel	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Selenium	0.0018	0.00025	0.0025	E4	mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Silver	0.000026	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1530	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-08

**Client Sample ID:** TTA3-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1530	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.000044	0.0000041	0.0010	E4	mg/L	1	09/02/2021 0850	09/02/2021 1300	MH
<b>Turbidity-E180.1</b>									
Turbidity	580		2.0	H3	NTU	20	08/24/2021 1700	08/24/2021 1725	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.13		0.10		mg/L	1	08/31/2021 1000	09/01/2021 1029	MH
Calcium	120		4.0		mg/L	1	08/31/2021 1000	09/01/2021 1028	MH
Iron	98		3.0		mg/L	10	08/31/2021 1000	09/01/2021 1122	MH
Magnesium	26		3.0		mg/L	1	08/31/2021 1000	09/01/2021 1028	MH
Potassium	15		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1028	MH
Silica	140		2.0		mg/L	10	08/31/2021 1000	09/01/2021 1123	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1028	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	45		4.0		mg/L	100	08/31/2021 1045	09/02/2021 1734	CR
Antimony	0.00073		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR
Arsenic	0.013		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR
Barium	0.26		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR
Beryllium	0.0041		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR
Cadmium	0.0024		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR
Chromium	0.034		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR
Cobalt	0.0215		0.000250		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR
Copper	14		0.050		mg/L	100	08/31/2021 1045	09/02/2021 1734	CR
Lead	0.11		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR
Manganese	2.5		0.025		mg/L	100	08/31/2021 1045	09/02/2021 1734	CR
Molybdenum	0.13		0.025		mg/L	100	08/31/2021 1045	09/02/2021 1734	CR
Nickel	0.027		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR
Selenium	0.044		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR
Silver	0.0093		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR
Thallium	0.00081		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR
Uranium	0.0050		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR
Zinc	0.65		0.040		mg/L	1	08/31/2021 1045	09/02/2021 1500	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-08

**Client Sample ID:** TTA3-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
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**CVAA Total Mercury-E245.1**

Mercury	0.00038	0.00036	0.0010	E4	mg/L	1	09/01/2021 1448	09/01/2021 1709	CR
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**Anions by Ion Chromatography-E300.0 (2.1)**

Chloride	1.4		1.0		mg/L	1	08/19/2021 0752	08/19/2021 2232	JG
Fluoride	0.82		0.50		mg/L	1	08/19/2021 0752	08/19/2021 2232	JG
Nitrogen, Nitrate (As N)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2232	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/19/2021 2232	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2232	JG
Sulfate	180		50		mg/L	10	08/19/2021 0752	08/25/2021 1714	JG

**Calculation-Ion Balance**

Anion	6.58				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	4.08				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	23.4				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB

**Total Kjeldahl Nitrogen-PAI-DK01**

Nitrogen, Total Kjeldahl	24		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
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**Alkalinity-SM2320B**

Alkalinity, Bicarbonate (As CaCO3)	130		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Total (As CaCO3)	130		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG

**Specific Conductance-SM2510 B**

Conductivity	520		0.10		µmhos/cm	1	08/25/2021 1527	08/25/2021 1610	CWB
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**Total Dissolved Solids (Residue, Filterable)-SM2540 C**

Total Dissolved Solids (Residue, Filterable)	370		20		mg/L	1	08/19/2021 0848	08/24/2021 1100	AGC
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**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-08

**Client Sample ID:** TTA3-081321  
**Collection Date/Time:** 08/13/2021 1953  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	1100		10		mg/L	1	08/20/2021 0919	08/23/2021 1605	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	5.6		2.0		mg/L	1	08/31/2021 1100	08/31/2021 1430	AGC
<b>pH-SW9045D</b>									
pH (pH Units)	7.4			H5	-	1	08/26/2021 1520	08/26/2021 1529	CWB
Temperature (°C)	19			H5	-	1	08/26/2021 1520	08/26/2021 1529	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-09

**Client Sample ID:** D4-081621  
**Collection Date/Time:** 08/16/2021 2107  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	47		22		mg/L	1	08/30/2021 0950	08/31/2021 1049	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	98				mg/L	1	08/31/2021 1000	09/01/2021 0913	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	0.0				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	08/19/2021 0752	08/19/2021 2250	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.011	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1049	MH
Calcium	19		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1049	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1049	MH
Magnesium	ND		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1049	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1049	MH
Silica	3.6		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1049	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1049	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	0.053		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Antimony	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Arsenic	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Barium	0.0074		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Copper	0.075		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Manganese	0.023		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Molybdenum	0.0023		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Nickel	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Selenium	ND	0.00025	0.0025	E8	mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Silver	0.00013	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1544	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-09

**Client Sample ID:** D4-081621  
**Collection Date/Time:** 08/16/2021 2107  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	0.0000260.000023		0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1544	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.0000570.0000041		0.0010	E4	mg/L	1	09/02/2021 0850	09/02/2021 1302	MH
<b>Turbidity-E180.1</b>									
Turbidity	150		2.0	H1	NTU	20	08/24/2021 1700	08/24/2021 1725	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.049	0.0032	0.10	E4	mg/L	1	08/31/2021 1000	09/01/2021 0913	MH
Calcium	34		4.0		mg/L	1	08/31/2021 1000	09/01/2021 0913	MH
Iron	2.4		0.30	M6	mg/L	1	08/31/2021 1000	09/01/2021 0913	MH
Magnesium	3.3		3.0		mg/L	1	08/31/2021 1000	09/01/2021 0913	MH
Potassium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 0913	MH
Silica	21		0.20		mg/L	1	08/31/2021 1000	09/01/2021 0913	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 0913	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	3.1		0.40		mg/L	10	08/31/2021 1045	09/02/2021 1738	CR
Antimony	ND		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1504	CR
Arsenic	0.0016		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1504	CR
Barium	0.042		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1504	CR
Beryllium	ND		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1504	CR
Cadmium	0.00032		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1504	CR
Chromium	0.0054		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1504	CR
Cobalt	0.00126		0.000250		mg/L	1	08/31/2021 1045	09/02/2021 1504	CR
Copper	0.36		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1840	CR
Lead	0.0081		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1504	CR
Manganese	0.31		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1840	CR
Molybdenum	0.0033		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1840	CR
Nickel	0.0064		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1504	CR
Selenium	0.0022	0.00025	0.0025	E4	mg/L	1	08/31/2021 1045	09/02/2021 1504	CR
Silver	0.00094		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1504	CR
Thallium	0.0000730.000023		0.00050	E4	mg/L	1	08/31/2021 1045	09/02/2021 1504	CR
Uranium	0.00034	0.000015	0.00050	E4	mg/L	1	08/31/2021 1045	09/02/2021 1504	CR
Zinc	0.073		0.040		mg/L	1	08/31/2021 1045	09/02/2021 1504	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-09

**Client Sample ID:** D4-081621  
**Collection Date/Time:** 08/16/2021 2107  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>CVAA Total Mercury-E245.1</b>									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/01/2021 1448	09/01/2021 1711	CR
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	ND		1.0		mg/L	1	08/19/2021 0752	08/19/2021 2250	JG
Fluoride	ND		0.50	M2	mg/L	1	08/19/2021 0752	08/19/2021 2250	JG
Nitrogen, Nitrate (As N)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2250	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/19/2021 2250	JG
Phosphorus, Dissolved	0.54		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2250	JG
Orthophosphate (As P)									
Sulfate	ND		5.0	M2	mg/L	1	08/19/2021 0752	08/19/2021 2250	JG
<b>Calculation-Ion Balance</b>									
Anion	2.33				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	0.957				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	41.8				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	ND		5.0	D1	mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Alkalinity-SM2320B</b>									
Alkalinity, Bicarbonate (As CaCO3)	110		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Total (As CaCO3)	110		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
<b>Specific Conductance-SM2510 B</b>									
Conductivity	200		0.10		µmhos/cm	1	08/25/2021 1527	08/25/2021 1610	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	10000		20		mg/L	1	08/19/2021 0848	08/24/2021 1100	AGC

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-09

**Client Sample ID:** D4-081621  
**Collection Date/Time:** 08/16/2021 2107  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	240		10		mg/L	1	08/20/2021 0919	08/23/2021 1605	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	5.1		2.0		mg/L	1	08/31/2021 1100	08/31/2021 1430	AGC
<b>pH-SW9045D</b>									
pH (pH Units)	8.0			H5	-	1	08/26/2021 1520	08/26/2021 1535	CWB
Temperature (°C)	19			H5	-	1	08/26/2021 1520	08/26/2021 1535	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-10

**Client Sample ID:** D2-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	44		22		mg/L	1	08/30/2021 0950	08/31/2021 1110	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	150				mg/L	1	08/31/2021 1000	09/01/2021 1034	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	11				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	08/19/2021 0752	08/19/2021 2308	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.019	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1110	MH
Calcium	18		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1110	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1110	MH
Magnesium	ND		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1110	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1110	MH
Silica	4.6		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1110	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1110	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	0.20		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Antimony	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Arsenic	0.00096		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Barium	0.026		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Copper	0.0081		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Manganese	0.029		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Molybdenum	0.0052		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Nickel	0.00070		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Selenium	ND	0.00025	0.0025	E8	mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Silver	0.000059	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1548	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-10

**Client Sample ID:** D2-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1548	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.000036	0.0000041	0.0010	E4	mg/L	1	09/02/2021 0850	09/02/2021 1305	MH
<b>Turbidity-E180.1</b>									
Turbidity	3300		10	H1	NTU	100	08/24/2021 1700	08/24/2021 1725	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.062	0.0032	0.10	E4	mg/L	1	08/31/2021 1000	09/01/2021 1034	MH
Calcium	38		4.0		mg/L	1	08/31/2021 1000	09/01/2021 1034	MH
Iron	39		0.30		mg/L	1	08/31/2021 1000	09/01/2021 1034	MH
Magnesium	14		3.0		mg/L	1	08/31/2021 1000	09/01/2021 1034	MH
Potassium	16		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1034	MH
Silica	130		2.0		mg/L	10	08/31/2021 1000	09/01/2021 1127	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1034	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	42		4.0		mg/L	100	08/31/2021 1045	09/02/2021 1741	CR
Antimony	ND		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR
Arsenic	0.013		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR
Barium	0.34		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR
Beryllium	0.0044		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR
Cadmium	0.00074		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR
Chromium	0.018		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR
Cobalt	0.0234		0.000250		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR
Copper	0.32		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1844	CR
Lead	0.048		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR
Manganese	1.6		0.025		mg/L	100	08/31/2021 1045	09/02/2021 1741	CR
Molybdenum	0.0035		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1844	CR
Nickel	0.021		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR
Selenium	0.081		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR
Silver	0.0039		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR
Thallium	0.00081		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR
Uranium	0.0031		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR
Zinc	0.19		0.040		mg/L	1	08/31/2021 1045	09/02/2021 1507	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-10

**Client Sample ID:** D2-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst	
<b>CVAA Total Mercury-E245.1</b>										
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/01/2021 1448	09/01/2021 1714	CR	
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>										
Chloride	1.1		1.0		mg/L	1	08/19/2021 0752	08/19/2021 2308	JG	
Fluoride	ND		0.50		mg/L	1	08/19/2021 0752	08/19/2021 2308	JG	
Nitrogen, Nitrate (As N)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2308	JG	
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/19/2021 2308	JG	
Phosphorus, Dissolved	0.75		0.50	H3	mg/L	1	08/19/2021 0752	08/19/2021 2308	JG	
Orthophosphate (As P)										
Sulfate	ND		5.0		mg/L	1	08/19/2021 0752	08/19/2021 2308	JG	
<b>Calculation-Ion Balance</b>										
Anion	2.92				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB	
Cation	0.922				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB	
Cation/Anion, % Difference	52.0				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB	
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>										
Nitrogen, Total Kjeldahl	11		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG	
<b>Alkalinity-SM2320B</b>										
Alkalinity, Bicarbonate (As CaCO3)	140		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG	
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG	
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG	
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG	
Alkalinity, Total (As CaCO3)	140		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG	
<b>Specific Conductance-SM2510 B</b>										
Conductivity	150		0.10		µmhos/cm	1	09/02/2021 1325	09/02/2021 1430	CWB	
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>										
Total Dissolved Solids (Residue, Filterable)	400000		20		mg/L	1	08/19/2021 0848	08/24/2021 1100	AGC	

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-10

**Client Sample ID:** D2-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	6100		10		mg/L	1	08/20/2021 0919	08/23/2021 1605	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	3.2		2.0		mg/L	1	08/31/2021 1100	08/31/2021 1430	AGC
<b>pH-SW9045D</b>									
pH (pH Units)	7.6			H5	-	1	08/26/2021 1520	08/26/2021 1537	CWB
Temperature (°C)	18			H5	-	1	08/26/2021 1520	08/26/2021 1537	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-11

**Client Sample ID:** D5-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	28		22		mg/L	1	08/30/2021 0950	08/31/2021 1113	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	58				mg/L	1	08/31/2021 1000	09/01/2021 1038	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	8.3				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	0.66		0.10		mg/L	1	08/19/2021 0752	08/20/2021 0038	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.025	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1113	MH
Calcium	11		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1113	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1113	MH
Magnesium	ND		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1113	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1113	MH
Silica	5.6		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1113	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1113	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	0.27		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Antimony	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Arsenic	0.0011		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Barium	0.017		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Copper	0.012		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Manganese	0.034		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Molybdenum	0.00099		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Nickel	0.00072		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Selenium	0.00056	0.00025	0.0025	E4	mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Silver	0.000047	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1551	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-11

**Client Sample ID:** D5-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1551	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.000048	0.0000041	0.0010	E4	mg/L	1	09/02/2021 0850	09/02/2021 1307	MH
<b>Turbidity-E180.1</b>									
Turbidity	220		2.0	H1	NTU	20	08/24/2021 1700	08/24/2021 1725	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.034	0.0032	0.10	E4	mg/L	1	08/31/2021 1000	09/01/2021 1039	MH
Calcium	17		4.0		mg/L	1	08/31/2021 1000	09/01/2021 1038	MH
Iron	8.6		0.30		mg/L	1	08/31/2021 1000	09/01/2021 1038	MH
Magnesium	3.7		3.0		mg/L	1	08/31/2021 1000	09/01/2021 1038	MH
Potassium	5.3		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1038	MH
Silica	26		0.20		mg/L	1	08/31/2021 1000	09/01/2021 1039	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1038	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	6.8		0.40		mg/L	10	08/31/2021 1045	09/02/2021 1745	CR
Antimony	ND		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1511	CR
Arsenic	0.0029		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1511	CR
Barium	0.086		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1511	CR
Beryllium	0.00074		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1511	CR
Cadmium	ND		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1511	CR
Chromium	0.0044		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1511	CR
Cobalt	0.00365		0.000250		mg/L	1	08/31/2021 1045	09/02/2021 1511	CR
Copper	0.084		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1847	CR
Lead	0.0082		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1511	CR
Manganese	0.30		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1847	CR
Molybdenum	0.00043		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1847	CR
Nickel	0.0048		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1511	CR
Selenium	0.014		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1511	CR
Silver	0.00013	0.000021	0.00050	E4	mg/L	1	08/31/2021 1045	09/02/2021 1511	CR
Thallium	0.00015	0.000023	0.00050	E4	mg/L	1	08/31/2021 1045	09/02/2021 1511	CR
Uranium	0.00073		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1511	CR
Zinc	0.058		0.040		mg/L	1	08/31/2021 1045	09/02/2021 1511	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-11

**Client Sample ID:** D5-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>CVAA Total Mercury-E245.1</b>									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/01/2021 1448	09/01/2021 1717	CR
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	1.1		1.0		mg/L	1	08/19/2021 0752	08/20/2021 0038	JG
Fluoride	ND		0.50		mg/L	1	08/19/2021 0752	08/20/2021 0038	JG
Nitrogen, Nitrate (As N)	0.66		0.50	H3	mg/L	1	08/19/2021 0752	08/20/2021 0038	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/20/2021 0038	JG
Phosphorus, Dissolved	0.81		0.50	H3	mg/L	1	08/19/2021 0752	08/20/2021 0038	JG
Orthophosphate (As P)									
Sulfate	ND		5.0		mg/L	1	08/19/2021 0752	08/20/2021 0038	JG
<b>Calculation-Ion Balance</b>									
Anion	0.581				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	1.02				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	27.5				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	7.6		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Alkalinity-SM2320B</b>									
Alkalinity, Bicarbonate (As CaCO3)	42		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Total (As CaCO3)	42		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
<b>Specific Conductance-SM2510 B</b>									
Conductivity	90		0.10		µmhos/cm	1	09/02/2021 1325	09/02/2021 1430	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	150		20		mg/L	1	08/19/2021 0848	08/24/2021 1100	AGC

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-11

**Client Sample ID:** D5-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	300		10		mg/L	1	08/20/2021 0919	08/23/2021 1605	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	3.9		2.0		mg/L	1	08/31/2021 1100	08/31/2021 1430	AGC
<b>pH-SW9045D</b>									
pH (pH Units)	7.0			H5	-	1	08/26/2021 1520	08/26/2021 1539	CWB
Temperature (°C)	18			H5	-	1	08/26/2021 1520	08/26/2021 1539	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-12

**Client Sample ID:** AS-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	51		22		mg/L	1	08/30/2021 0950	08/31/2021 1116	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	550				mg/L	1	08/31/2021 1000	09/01/2021 1042	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	13				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	0.71		0.10		mg/L	1	08/19/2021 0752	08/20/2021 0056	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.017	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1116	MH
Calcium	21		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1116	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1116	MH
Magnesium	ND		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1116	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1116	MH
Silica	4.8		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1116	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1116	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	0.048		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Antimony	0.00065		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Arsenic	0.0021		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Barium	0.012		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Copper	0.037		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Manganese	0.016		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Molybdenum	0.031		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Nickel	0.00074		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Selenium	0.00096	0.00025	0.0025	E4	mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Silver	0.000037	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1555	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-12

**Client Sample ID:** AS-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1555	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.000055	0.000041	0.0010	E4	mg/L	1	09/02/2021 0850	09/02/2021 1310	MH
<b>Turbidity-E180.1</b>									
Turbidity	5200		20	H1	NTU	200	08/24/2021 1700	08/24/2021 1725	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.10		0.10		mg/L	1	08/31/2021 1000	09/01/2021 1043	MH
Calcium	150		4.0		mg/L	1	08/31/2021 1000	09/01/2021 1042	MH
Iron	88		3.0		mg/L	10	08/31/2021 1000	09/01/2021 1130	MH
Magnesium	44		3.0		mg/L	1	08/31/2021 1000	09/01/2021 1042	MH
Potassium	20		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1042	MH
Silica	200		2.0		mg/L	10	08/31/2021 1000	09/01/2021 1131	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1042	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	87		4.0		mg/L	100	08/31/2021 1045	09/02/2021 1748	CR
Antimony	0.00075		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1514	CR
Arsenic	0.025		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1514	CR
Barium	0.44		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1514	CR
Beryllium	0.0070		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1514	CR
Cadmium	0.0041		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1514	CR
Chromium	0.055		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1514	CR
Cobalt	0.0289		0.000250		mg/L	1	08/31/2021 1045	09/02/2021 1514	CR
Copper	5.9		0.0050		mg/L	10	08/31/2021 1045	09/02/2021 1823	CR
Lead	0.26		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1514	CR
Manganese	3.4		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1823	CR
Molybdenum	0.022		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1823	CR
Nickel	0.036		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1514	CR
Selenium	0.074		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1514	CR
Silver	0.0040		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1514	CR
Thallium	0.0010		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1514	CR
Uranium	0.0063		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1514	CR
Zinc	1.1		0.40		mg/L	10	08/31/2021 1045	09/02/2021 1823	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-12

**Client Sample ID:** AS-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>CVAA Total Mercury-E245.1</b>									
Mercury	0.00039	0.00036	0.0010	E4	mg/L	1	09/01/2021 1448	09/01/2021 1719	CR
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	2.3		1.0		mg/L	1	08/19/2021 0752	08/20/2021 0056	JG
Fluoride	ND		0.50		mg/L	1	08/19/2021 0752	08/20/2021 0056	JG
Nitrogen, Nitrate (As N)	0.71		0.50	H3	mg/L	1	08/19/2021 0752	08/20/2021 0056	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/20/2021 0056	JG
Phosphorus, Dissolved Orthophosphate (As P)	0.60		0.50	H3	mg/L	1	08/19/2021 0752	08/20/2021 0056	JG
Sulfate	7.0		5.0		mg/L	1	08/19/2021 0752	08/20/2021 0056	JG
<b>Calculation-Ion Balance</b>									
Anion	11.2				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	1.06				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	82.8				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	12		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Alkalinity-SM2320B</b>									
Alkalinity, Bicarbonate (As CaCO3)	540		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Total (As CaCO3)	540		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
<b>Specific Conductance-SM2510 B</b>									
Conductivity	190		0.10		µmhos/cm	1	09/02/2021 1325	09/02/2021 1430	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	210		20		mg/L	1	08/19/2021 0848	08/24/2021 1100	AGC

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-12

**Client Sample ID:** AS-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	7000		10		mg/L	1	08/20/2021 0919	08/23/2021 1605	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	5.8		2.0		mg/L	1	08/31/2021 1100	08/31/2021 1430	AGC
<b>Total Organic Carbon-SM5310 C</b>									
Organic Carbon, Total	12		2.5		mg/L	5	08/24/2021 0718	08/24/2021 1100	MH
<b>pH-SW9045D</b>									
pH (pH Units)	8.3			H5	-	1	08/26/2021 1520	08/26/2021 1540	CWB
Temperature (°C)	18			H5	-	1	08/26/2021 1520	08/26/2021 1540	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-13

**Client Sample ID:** BS-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	39		22		mg/L	1	08/30/2021 0950	08/31/2021 1119	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	130				mg/L	1	08/31/2021 1000	09/01/2021 1135	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	8.0				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	08/19/2021 0752	08/20/2021 0115	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.012	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1119	MH
Calcium	16		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1119	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1119	MH
Magnesium	ND		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1119	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1119	MH
Silica	3.8		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1119	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1119	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	0.077		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Antimony	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Arsenic	0.0013		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Barium	0.012		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Copper	0.021		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Manganese	0.023		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Molybdenum	0.017		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Nickel	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Selenium	ND	0.00025	0.0025	E8	mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Silver	0.000027	0.000021	0.00050	E8	mg/L	1	08/27/2021 1500	09/01/2021 1558	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-13

**Client Sample ID:** BS-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1558	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.0000520	0.0000041	0.0010	E4	mg/L	1	09/02/2021 0850	09/02/2021 1312	MH
<b>Turbidity-E180.1</b>									
Turbidity	540		2.0	H1	NTU	20	08/24/2021 1700	08/24/2021 1725	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.039	0.0032	0.10	E4	mg/L	1	08/31/2021 1000	09/01/2021 1135	MH
Calcium	36		4.0		mg/L	1	08/31/2021 1000	09/01/2021 1134	MH
Iron	15		0.30		mg/L	1	08/31/2021 1000	09/01/2021 1134	MH
Magnesium	9.2		3.0		mg/L	1	08/31/2021 1000	09/01/2021 1135	MH
Potassium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1134	MH
Silica	68		0.20		mg/L	1	08/31/2021 1000	09/01/2021 1135	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1135	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	13		4.0		mg/L	100	08/31/2021 1045	09/02/2021 1752	CR
Antimony	0.00052		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1518	CR
Arsenic	0.0064		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1518	CR
Barium	0.095		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1518	CR
Beryllium	0.0012		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1518	CR
Cadmium	0.0010		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1518	CR
Chromium	0.011		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1518	CR
Cobalt	0.00527		0.000250		mg/L	1	08/31/2021 1045	09/02/2021 1518	CR
Copper	1.1		0.0050		mg/L	10	08/31/2021 1045	09/02/2021 1827	CR
Lead	0.024		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1518	CR
Manganese	0.61		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1827	CR
Molybdenum	0.015		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1827	CR
Nickel	0.011		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1518	CR
Selenium	0.013		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1518	CR
Silver	0.00089		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1518	CR
Thallium	0.00020	0.000023	0.00050	E4	mg/L	1	08/31/2021 1045	09/02/2021 1518	CR
Uranium	0.0012		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1518	CR
Zinc	0.29		0.040		mg/L	1	08/31/2021 1045	09/02/2021 1518	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-13

**Client Sample ID:** BS-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>CVAA Total Mercury-E245.1</b>									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/01/2021 1448	09/01/2021 1722	CR
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	ND		1.0		mg/L	1	08/19/2021 0752	08/20/2021 0115	JG
Fluoride	ND		0.50		mg/L	1	08/19/2021 0752	08/20/2021 0115	JG
Nitrogen, Nitrate (As N)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/20/2021 0115	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/20/2021 0115	JG
Phosphorus, Dissolved Orthophosphate (As P)	0.52		0.50	H3	mg/L	1	08/19/2021 0752	08/20/2021 0115	JG
Sulfate	6.0		5.0		mg/L	1	08/19/2021 0752	08/20/2021 0115	JG
<b>Calculation-Ion Balance</b>									
Anion	1.99				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	0.808				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	42.2				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	8.0		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Alkalinity-SM2320B</b>									
Alkalinity, Bicarbonate (As CaCO3)	90		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Total (As CaCO3)	90		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
<b>Specific Conductance-SM2510 B</b>									
Conductivity	120		0.10		µmhos/cm	1	09/02/2021 1325	09/02/2021 1430	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	160		20		mg/L	1	08/19/2021 0848	08/24/2021 1100	AGC

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-13

**Client Sample ID:** BS-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	1100		10		mg/L	1	08/20/2021 0919	08/23/2021 1605	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	2.5		2.0		mg/L	1	08/31/2021 1100	08/31/2021 1430	AGC
<b>Total Organic Carbon-SM5310 C</b>									
Organic Carbon, Total	8.3		2.5		mg/L	5	08/24/2021 0718	08/24/2021 1119	MH
<b>pH-SW9045D</b>									
pH (pH Units)	8.6			H5	-	1	08/26/2021 1520	08/26/2021 1544	CWB
Temperature (°C)	18			H5	-	1	08/26/2021 1520	08/26/2021 1544	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-14

**Client Sample ID:** D11-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	56		22		mg/L	1	08/30/2021 0950	08/31/2021 1122	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	140				mg/L	1	08/31/2021 1000	09/01/2021 1139	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	8.3				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	08/19/2021 0752	08/20/2021 0133	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.014	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1122	MH
Calcium	23		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1122	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1122	MH
Magnesium	ND		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1122	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1122	MH
Silica	4.6		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1122	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1122	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Antimony	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Arsenic	0.0013		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Barium	0.016		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Copper	0.042		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Manganese	0.032		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Molybdenum	0.010		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Nickel	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Selenium	0.0011	0.00025	0.0025	E4	mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Silver	0.000037	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1602	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-14

**Client Sample ID:** D11-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1602	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.000056	0.0000041	0.0010	E4	mg/L	1	09/02/2021 0850	09/02/2021 1342	MH
<b>Turbidity-E180.1</b>									
Turbidity	340		2.0	H1	NTU	20	08/24/2021 1700	08/24/2021 1725	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.047	0.0032	0.10	E4	mg/L	1	08/31/2021 1000	09/01/2021 1139	MH
Calcium	43		4.0		mg/L	1	08/31/2021 1000	09/01/2021 1139	MH
Iron	13		0.30		mg/L	1	08/31/2021 1000	09/01/2021 1139	MH
Magnesium	8.0		3.0		mg/L	1	08/31/2021 1000	09/01/2021 1139	MH
Potassium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1139	MH
Silica	63		0.20		mg/L	1	08/31/2021 1000	09/01/2021 1139	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1139	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	13		4.0		mg/L	100	08/31/2021 1045	09/02/2021 1755	CR
Antimony	0.00072		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1528	CR
Arsenic	0.0056		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1528	CR
Barium	0.082		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1528	CR
Beryllium	0.00098		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1528	CR
Cadmium	0.0018		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1528	CR
Chromium	0.010		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1528	CR
Cobalt	0.00389		0.000250		mg/L	1	08/31/2021 1045	09/02/2021 1528	CR
Copper	2.0		0.0050		mg/L	10	08/31/2021 1045	09/02/2021 1830	CR
Lead	0.024		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1528	CR
Manganese	0.60		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1830	CR
Molybdenum	0.011		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1830	CR
Nickel	0.0078		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1528	CR
Selenium	0.011		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1528	CR
Silver	0.0035		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1528	CR
Thallium	0.00017	0.000023	0.00050	E4	mg/L	1	08/31/2021 1045	09/02/2021 1528	CR
Uranium	0.0012		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1528	CR
Zinc	0.39		0.040		mg/L	1	08/31/2021 1045	09/02/2021 1528	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-14

**Client Sample ID:** D11-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>CVAA Total Mercury-E245.1</b>									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/01/2021 1448	09/01/2021 1724	CR
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	ND		1.0		mg/L	1	08/19/2021 0752	08/20/2021 0133	JG
Fluoride	ND		0.50		mg/L	1	08/19/2021 0752	08/20/2021 0133	JG
Nitrogen, Nitrate (As N)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/20/2021 0133	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/20/2021 0133	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/20/2021 0133	JG
Sulfate	ND		5.0		mg/L	1	08/19/2021 0752	08/20/2021 0133	JG
<b>Calculation-Ion Balance</b>									
Anion	1.71				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	1.15				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	19.5				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	8.3		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Alkalinity-SM2320B</b>									
Alkalinity, Bicarbonate (As CaCO3)	80		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Total (As CaCO3)	80		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
<b>Specific Conductance-SM2510 B</b>									
Conductivity	150		0.10		µmhos/cm	1	09/02/2021 1325	09/02/2021 1430	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	190		20		mg/L	1	08/19/2021 0848	08/24/2021 1100	AGC

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-14

**Client Sample ID:** D11-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	280		10		mg/L	1	08/20/2021 0919	08/23/2021 1605	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	4.1		2.0		mg/L	1	08/31/2021 1100	08/31/2021 1430	AGC
<b>Total Organic Carbon-SM5310 C</b>									
Organic Carbon, Total	17		2.5		mg/L	5	08/24/2021 0718	08/24/2021 1138	MH
<b>pH-SW9045D</b>									
pH (pH Units)	8.3			H5	-	1	08/26/2021 1520	08/26/2021 1546	CWB
Temperature (°C)	18			H5	-	1	08/26/2021 1520	08/26/2021 1546	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-15

**Client Sample ID:** D13-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	ND		22		mg/L	1	08/30/2021 0950	08/31/2021 1125	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	120				mg/L	1	08/31/2021 1000	09/01/2021 1143	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	7.6				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	08/19/2021 0752	08/20/2021 0151	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.019	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1125	MH
Calcium	8.4		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1125	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1125	MH
Magnesium	ND		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1125	MH
Potassium	5.3		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1125	MH
Silica	7.6		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1125	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1125	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	0.21		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Antimony	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Arsenic	0.0018		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Barium	0.013		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Copper	0.020		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Manganese	0.017		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Molybdenum	0.0042		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Nickel	0.00082		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Selenium	0.0011	0.00025	0.0025	E4	mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Silver	0.000025	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1605	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-15

**Client Sample ID:** D13-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1605	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.0000680	0.0000041	0.0010	E4	mg/L	1	09/02/2021 0850	09/02/2021 1344	MH
<b>Turbidity-E180.1</b>									
Turbidity	2600		20	H1	NTU	200	08/24/2021 1700	08/24/2021 1725	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.064	0.0032	0.10	E4	mg/L	1	08/31/2021 1000	09/01/2021 1143	MH
Calcium	25		4.0		mg/L	1	08/31/2021 1000	09/01/2021 1143	MH
Iron	41		0.30		mg/L	1	08/31/2021 1000	09/01/2021 1143	MH
Magnesium	14		3.0		mg/L	1	08/31/2021 1000	09/01/2021 1143	MH
Potassium	12		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1143	MH
Silica	180		2.0		mg/L	10	08/31/2021 1000	09/01/2021 1216	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1143	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	48		4.0		mg/L	100	08/31/2021 1045	09/02/2021 1759	CR
Antimony	ND		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1532	CR
Arsenic	0.011		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1532	CR
Barium	0.28		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1532	CR
Beryllium	0.0040		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1532	CR
Cadmium	0.00043		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1532	CR
Chromium	0.018		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1532	CR
Cobalt	0.0107		0.000250		mg/L	1	08/31/2021 1045	09/02/2021 1532	CR
Copper	0.53		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1851	CR
Lead	0.035		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1532	CR
Manganese	1.4		0.025		mg/L	100	08/31/2021 1045	09/02/2021 1759	CR
Molybdenum	0.0023		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1851	CR
Nickel	0.015		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1532	CR
Selenium	0.061		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1532	CR
Silver	0.00047	0.000021	0.00050	E4	mg/L	1	08/31/2021 1045	09/02/2021 1532	CR
Thallium	0.00042	0.000023	0.00050	E4	mg/L	1	08/31/2021 1045	09/02/2021 1532	CR
Uranium	0.0042		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1532	CR
Zinc	0.16		0.040		mg/L	1	08/31/2021 1045	09/02/2021 1532	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-15

**Client Sample ID:** D13-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>CVAA Total Mercury-E245.1</b>									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/01/2021 1448	09/01/2021 1727	CR
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	3.0		1.0		mg/L	1	08/19/2021 0752	08/20/2021 0151	JG
Fluoride	ND		0.50		mg/L	1	08/19/2021 0752	08/20/2021 0151	JG
Nitrogen, Nitrate (As N)	ND		0.50	H3	mg/L	1	08/19/2021 0752	08/20/2021 0151	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/20/2021 0151	JG
Phosphorus, Dissolved	0.75		0.50	H3	mg/L	1	08/19/2021 0752	08/20/2021 0151	JG
Orthophosphate (As P)									
Sulfate	5.5		5.0		mg/L	1	08/19/2021 0752	08/20/2021 0151	JG
<b>Calculation-Ion Balance</b>									
Anion	2.60				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	0.579				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	63.6				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	7.6		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Alkalinity-SM2320B</b>									
Alkalinity, Bicarbonate (As CaCO3)	110		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
Alkalinity, Total (As CaCO3)	110		2.0		mg/L	1	08/24/2021 1400	08/24/2021 1523	JG
<b>Specific Conductance-SM2510 B</b>									
Conductivity	190		0.10		µmhos/cm	1	09/02/2021 1325	09/02/2021 1430	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	200		20		mg/L	1	08/19/2021 0848	08/24/2021 1100	AGC

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-15

**Client Sample ID:** D13-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	5600		10		mg/L	1	08/20/2021 0919	08/23/2021 1605	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	7.7		2.0		mg/L	1	08/31/2021 1100	08/31/2021 1430	AGC
<b>Total Organic Carbon-SM5310 C</b>									
Organic Carbon, Total	18		2.5		mg/L	5	08/24/2021 0718	08/24/2021 1158	MH
<b>pH-SW9045D</b>									
pH (pH Units)	6.7			H5	-	1	08/26/2021 1520	08/26/2021 1548	CWB
Temperature (°C)	19			H5	-	1	08/26/2021 1520	08/26/2021 1548	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-16

**Client Sample ID:** D15-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	140		22		mg/L	1	08/30/2021 0950	08/31/2021 1128	MH
<b>Hardness-Calculation</b>									
Hardness, Calcium/Magnesium (As CaCO3)	640				mg/L	1	08/31/2021 1000	09/01/2021 1148	MH
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>									
Nitrogen, Total	9.5				mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Nitrate + Nitrite Sum-Calculation</b>									
Nitrate and Nitrite Sum	0.77		0.10		mg/L	1	08/19/2021 0752	08/20/2021 0209	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>									
Boron	0.023	0.0032	0.10	E4	mg/L	1	08/30/2021 0950	08/31/2021 1128	MH
Calcium	51		4.0		mg/L	1	08/30/2021 0950	08/31/2021 1128	MH
Iron	ND		0.30		mg/L	1	08/30/2021 0950	08/31/2021 1128	MH
Magnesium	3.1		3.0		mg/L	1	08/30/2021 0950	08/31/2021 1128	MH
Potassium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1128	MH
Silica	7.7		0.20		mg/L	1	08/30/2021 0950	08/31/2021 1128	MH
Sodium	ND		5.0		mg/L	1	08/30/2021 0950	08/31/2021 1128	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>									
Aluminum	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Antimony	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Arsenic	0.0021		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Barium	0.030		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Beryllium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Cadmium	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Chromium	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Cobalt	ND		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Copper	0.051		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Lead	ND		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Manganese	0.047		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Molybdenum	0.028		0.00025		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Nickel	0.00055		0.00050		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Selenium	0.00056	0.00025	0.0025	E4	mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Silver	0.000031	0.000021	0.00050	E4	mg/L	1	08/27/2021 1500	09/01/2021 1609	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-16

**Client Sample ID:** D15-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
Zinc	ND		0.040		mg/L	1	08/27/2021 1500	09/01/2021 1609	CR
<b>CVAA Dissolved Mercury-E 245.1</b>									
Mercury	0.000048	0.0000041	0.0010	E4	mg/L	1	09/02/2021 0850	09/02/2021 1347	MH
<b>Turbidity-E180.1</b>									
Turbidity	3600		10		NTU	100	08/25/2021 1505	08/25/2021 1525	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.078	0.0032	0.10	E4	mg/L	1	08/31/2021 1000	09/01/2021 1148	MH
Calcium	200		4.0		mg/L	1	08/31/2021 1000	09/01/2021 1148	MH
Iron	61		0.30		mg/L	1	08/31/2021 1000	09/01/2021 1148	MH
Magnesium	33		3.0		mg/L	1	08/31/2021 1000	09/01/2021 1148	MH
Potassium	15		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1148	MH
Silica	160		2.0		mg/L	10	08/31/2021 1000	09/01/2021 1220	MH
Sodium	ND		5.0		mg/L	1	08/31/2021 1000	09/01/2021 1148	MH
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	50		4.0		mg/L	100	08/31/2021 1045	09/02/2021 1802	CR
Antimony	0.00057		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1535	CR
Arsenic	0.018		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1535	CR
Barium	0.35		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1535	CR
Beryllium	0.0047		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1535	CR
Cadmium	0.0043		0.00025		mg/L	1	08/31/2021 1045	09/02/2021 1535	CR
Chromium	0.038		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1535	CR
Cobalt	0.0244		0.000250		mg/L	1	08/31/2021 1045	09/02/2021 1535	CR
Copper	5.0		0.0050		mg/L	10	08/31/2021 1045	09/02/2021 1820	CR
Lead	0.12		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1535	CR
Manganese	3.1		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1820	CR
Molybdenum	0.023		0.0025		mg/L	10	08/31/2021 1045	09/02/2021 1820	CR
Nickel	0.028		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1535	CR
Selenium	0.053		0.0025		mg/L	1	08/31/2021 1045	09/02/2021 1535	CR
Silver	0.0044		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1535	CR
Thallium	0.00077		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1535	CR
Uranium	0.0055		0.00050		mg/L	1	08/31/2021 1045	09/02/2021 1535	CR
Zinc	1.0		0.40		mg/L	10	08/31/2021 1045	09/02/2021 1820	CR

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-16

**Client Sample ID:** D15-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>CVAA Total Mercury-E245.1</b>									
Mercury	ND	0.00036	0.0010	E8	mg/L	1	09/01/2021 1448	09/01/2021 1730	CR
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>									
Chloride	1.1		1.0		mg/L	1	08/19/2021 0752	08/20/2021 0209	JG
Fluoride	ND		0.50		mg/L	1	08/19/2021 0752	08/20/2021 0209	JG
Nitrogen, Nitrate (As N)	0.77		0.50	H3	mg/L	1	08/19/2021 0752	08/20/2021 0209	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	08/19/2021 0752	08/20/2021 0209	JG
Phosphorus, Dissolved Orthophosphate (As P)	0.58		0.50	H3	mg/L	1	08/19/2021 0752	08/20/2021 0209	JG
Sulfate	5.2		5.0		mg/L	1	08/19/2021 0752	08/20/2021 0209	JG
<b>Calculation-Ion Balance</b>									
Anion	2.80				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation	18.7				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
Cation/Anion, % Difference	74.0				meq/L	1	09/09/2021 1544	09/09/2021 1544	KB
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>									
Nitrogen, Total Kjeldahl	8.7		5.0		mg/L	10	08/26/2021 1540	08/27/2021 1430	JG
<b>Alkalinity-SM2320B</b>									
Alkalinity, Bicarbonate (As CaCO3)	920		2.0		mg/L	1	08/30/2021 1230	08/30/2021 1400	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	08/30/2021 1230	08/30/2021 1400	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	08/30/2021 1230	08/30/2021 1400	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	08/30/2021 1230	08/30/2021 1400	AGC
Alkalinity, Total (As CaCO3)	920		2.0		mg/L	1	08/30/2021 1230	08/30/2021 1400	AGC
<b>Specific Conductance-SM2510 B</b>									
Conductivity	280		0.10		µmhos/cm	1	09/02/2021 1325	09/02/2021 1430	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>									
Total Dissolved Solids (Residue, Filterable)	240		20		mg/L	1	08/19/2021 0848	08/24/2021 1100	AGC

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Lab Sample ID:** 21H0539-16

**Client Sample ID:** D15-081621  
**Collection Date/Time:** 08/16/2021 2124  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>									
Total Suspended Solids	6700		10		mg/L	1	08/20/2021 0919	08/23/2021 1605	AGC
<b>Ammonia as N-SM4500-NH3 B,C</b>									
Nitrogen, Ammonia (As N)	ND		0.50		mg/L	1	08/25/2021 1230	08/25/2021 1640	JG
<b>Silica-SM4500-SiO2 C</b>									
Silica	5.8		2.0		mg/L	1	08/31/2021 1100	08/31/2021 1430	AGC
<b>Total Organic Carbon-SM5310 C</b>									
Organic Carbon, Total	20		5.0		mg/L	10	08/24/2021 0718	08/24/2021 1420	MH
<b>pH-SW9045D</b>									
pH (pH Units)	7.9			H5	-	1	08/26/2021 1520	08/26/2021 1605	CWB
Temperature (°C)	20			H5	-	1	08/26/2021 1520	08/26/2021 1605	CWB

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2108388 - E 200.7 (4.4)</b>										
<b>Blank (2108388-BLK1)</b> Prepared: 08/30/2021 Analyzed: 08/31/2021										
Boron	0.0092	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	ND	0.20	mg/L							
Sodium	ND	5.0	mg/L							
<b>LCS (2108388-BS1)</b> Prepared: 08/30/2021 Analyzed: 08/31/2021										
Boron	1.0	0.10	mg/L	1.000		100	85-115			
Calcium	9.9	4.0	mg/L	10.00		99	85-115			
Iron	0.97	0.30	mg/L	1.000		97	85-115			
Magnesium	10	3.0	mg/L	10.00		100	85-115			
Potassium	10	5.0	mg/L	10.00		102	85-115			
Sodium	10	5.0	mg/L	10.00		103	85-115			
<b>LCS (2108388-BS2)</b> Prepared: 08/30/2021 Analyzed: 08/31/2021										
Silica	2.1	0.20	mg/L	2.143		96	85-115			
<b>LCS Dup (2108388-BSD1)</b> Prepared: 08/30/2021 Analyzed: 08/31/2021										
Boron	1.0	0.10	mg/L	1.000		101	85-115	0.1	20	
Calcium	9.8	4.0	mg/L	10.00		98	85-115	0.5	20	
Iron	0.97	0.30	mg/L	1.000		97	85-115	0.3	20	
Magnesium	10	3.0	mg/L	10.00		100	85-115	0.3	20	
Potassium	10	5.0	mg/L	10.00		102	85-115	0.1	20	
Sodium	10	5.0	mg/L	10.00		102	85-115	0.3	20	
<b>LCS Dup (2108388-BSD2)</b> Prepared: 08/30/2021 Analyzed: 08/31/2021										
Silica	2.1	0.20	mg/L	2.143		100	85-115	3	20	
<b>Matrix Spike (2108388-MS1)</b> Source: 21H0470-01 Prepared: 08/30/2021 Analyzed: 08/31/2021										
Boron	1.2	0.10	mg/L	1.000	0.030	112	70-130			
Calcium	37	4.0	mg/L	10.00	28	84	70-130			
Iron	1.2	0.30	mg/L	1.000	0.23	100	70-130			
Magnesium	14	3.0	mg/L	10.00	3.4	102	70-130			
Potassium	15	5.0	mg/L	10.00	4.1	109	70-130			
Sodium	13	5.0	mg/L	10.00	1.9	111	70-130			
<b>Matrix Spike (2108388-MS2)</b> Source: 21H0539-07 Prepared: 08/30/2021 Analyzed: 08/31/2021										
Boron	1.2	0.10	mg/L	1.000	0.024	113	70-130			
Calcium	56	4.0	mg/L	10.00	46	99	70-130			
Iron	1.0	0.30	mg/L	1.000	0.019	101	70-130			
Magnesium	15	3.0	mg/L	10.00	4.6	101	70-130			
Potassium	14	5.0	mg/L	10.00	3.0	109	70-130			
Silica	4.6	0.20	mg/L		4.6		70-130			
Sodium	12	5.0	mg/L	10.00	ND	120	70-130			
<b>Matrix Spike (2108388-MS3)</b> Source: 21H0470-01 Prepared: 08/30/2021 Analyzed: 08/31/2021										
Silica	8.7	0.20	mg/L	2.143	6.6	101	70-130			

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2108388 - E 200.7 (4.4)</b>										
<b>Matrix Spike (2108388-MS4)</b>		<b>Source: 21H0539-07</b>			Prepared: 08/30/2021 Analyzed: 08/31/2021					
Silica	6.9	0.20	mg/L	2.143	4.6	107	70-130			
<b>Batch 2108392 - E 245.1</b>										
<b>Blank (2108392-BLK1)</b>		Prepared & Analyzed: 08/30/2021								
Mercury	0.000052	0.0010	mg/L							
<b>LCS (2108392-BS1)</b>		Prepared & Analyzed: 08/30/2021								
Mercury	0.0050	0.0010	mg/L	0.005000		101	85-115			
<b>LCS Dup (2108392-BSD1)</b>		Prepared & Analyzed: 08/30/2021								
Mercury	0.0050	0.0010	mg/L	0.005000		99	85-115	2	20	
<b>Matrix Spike (2108392-MS1)</b>		<b>Source: 21H0706-06</b>			Prepared & Analyzed: 08/30/2021					
Mercury	0.0051	0.0010	mg/L	0.005000	0.000025	102	70-130			
<b>Matrix Spike Dup (2108392-MSD1)</b>		<b>Source: 21H0706-06</b>			Prepared & Analyzed: 08/30/2021					
Mercury	0.0049	0.0010	mg/L	0.005000	0.000025	98	70-130	4	20	
<b>Batch 2108393 - E245.1</b>										
<b>Blank (2108393-BLK1)</b>		Prepared & Analyzed: 08/30/2021								
Mercury	ND	0.0010	mg/L							
<b>LCS (2108393-BS1)</b>		Prepared & Analyzed: 08/30/2021								
Mercury	0.0051	0.0010	mg/L	0.005000		103	85-115			
<b>LCS Dup (2108393-BSD1)</b>		Prepared & Analyzed: 08/30/2021								
Mercury	0.0050	0.0010	mg/L	0.005000		99	85-115	4	20	
<b>Matrix Spike (2108393-MS1)</b>		<b>Source: 21H0516-01</b>			Prepared & Analyzed: 08/30/2021					
Mercury	0.0050	0.0010	mg/L	0.005000	ND	99	70-130			
<b>Matrix Spike Dup (2108393-MSD1)</b>		<b>Source: 21H0516-01</b>			Prepared & Analyzed: 08/30/2021					
Mercury	0.0050	0.0010	mg/L	0.005000	ND	100	70-130	0.4	20	
<b>Batch 2108394 - E 200.8 (5.4)</b>										

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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**Batch 2108394 - E 200.8 (5.4)**

**Blank (2108394-BLK1)**

Prepared: 08/30/2021 Analyzed: 09/01/2021

Aluminum	ND	0.040	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.00025	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	0.000072	0.00050	mg/L							
Thallium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

**LCS (2108394-BS1)**

Prepared: 08/30/2021 Analyzed: 09/01/2021

Aluminum	0.11	0.040	mg/L	0.1000		106	85-115			
Antimony	0.050	0.00050	mg/L	0.05000		100	85-115			
Arsenic	0.050	0.00050	mg/L	0.05000		99	85-115			
Barium	0.050	0.00050	mg/L	0.05000		99	85-115			
Beryllium	0.050	0.00025	mg/L	0.05000		101	85-115			
Cadmium	0.049	0.00025	mg/L	0.05000		99	85-115			
Chromium	0.049	0.00050	mg/L	0.05000		99	85-115			
Cobalt	0.049	0.00025	mg/L	0.05000		97	85-115			
Copper	0.048	0.00050	mg/L	0.05000		97	85-115			
Lead	0.050	0.00050	mg/L	0.05000		101	85-115			
Manganese	0.051	0.00025	mg/L	0.05000		102	85-115			
Molybdenum	0.049	0.00025	mg/L	0.05000		97	85-115			
Nickel	0.048	0.00050	mg/L	0.05000		97	85-115			
Selenium	0.052	0.0025	mg/L	0.05000		104	85-115			
Silver	0.050	0.00050	mg/L	0.05000		99	85-115			
Thallium	0.050	0.00050	mg/L	0.05000		99	85-115			
Zinc	0.10	0.040	mg/L	0.1000		105	85-115			

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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**Batch 2108394 - E 200.8 (5.4)**

**LCS Dup (2108394-BSD1)**

Prepared: 08/30/2021 Analyzed: 09/01/2021

Aluminum	0.11	0.040	mg/L	0.1000		105	85-115	0.3	20	
Antimony	0.050	0.00050	mg/L	0.05000		100	85-115	0.5	20	
Arsenic	0.050	0.00050	mg/L	0.05000		100	85-115	0.3	20	
Barium	0.049	0.00050	mg/L	0.05000		97	85-115	2	20	
Beryllium	0.050	0.00025	mg/L	0.05000		100	85-115	0.6	20	
Cadmium	0.049	0.00025	mg/L	0.05000		99	85-115	0.2	20	
Chromium	0.049	0.00050	mg/L	0.05000		97	85-115	1	20	
Cobalt	0.048	0.00025	mg/L	0.05000		97	85-115	0.9	20	
Copper	0.048	0.00050	mg/L	0.05000		96	85-115	1	20	
Lead	0.051	0.00050	mg/L	0.05000		101	85-115	0.3	20	
Manganese	0.050	0.00025	mg/L	0.05000		99	85-115	2	20	
Molybdenum	0.049	0.00025	mg/L	0.05000		98	85-115	0.7	20	
Nickel	0.047	0.00050	mg/L	0.05000		95	85-115	2	20	
Selenium	0.049	0.0025	mg/L	0.05000		99	85-115	5	20	
Silver	0.050	0.00050	mg/L	0.05000		99	85-115	0.1	20	
Thallium	0.049	0.00050	mg/L	0.05000		98	85-115	1	20	
Zinc	0.10	0.040	mg/L	0.1000		104	85-115	1	20	

**Matrix Spike (2108394-MS1)**

**Source: 21H0470-02**

Prepared: 08/30/2021 Analyzed: 09/01/2021

Aluminum	0.29	0.040	mg/L	0.1000	0.18	107	70-130			
Antimony	0.052	0.00050	mg/L	0.05000	0.00013	104	70-130			
Arsenic	0.056	0.00050	mg/L	0.05000	0.0039	103	70-130			
Barium	0.066	0.00050	mg/L	0.05000	0.016	100	70-130			
Beryllium	0.054	0.00025	mg/L	0.05000	0.000016	108	70-130			
Cadmium	0.051	0.00025	mg/L	0.05000	0.000064	101	70-130			
Chromium	0.051	0.00050	mg/L	0.05000	0.00041	100	70-130			
Cobalt	0.049	0.00025	mg/L	0.05000	0.00017	98	70-130			
Copper	0.084	0.00050	mg/L	0.05000	0.036	96	70-130			
Lead	0.053	0.00050	mg/L	0.05000	0.0015	102	70-130			
Manganese	0.085	0.00025	mg/L	0.05000	0.033	104	70-130			
Molybdenum	0.054	0.00025	mg/L	0.05000	0.0049	99	70-130			
Nickel	0.049	0.00050	mg/L	0.05000	0.00095	96	70-130			
Selenium	0.055	0.0025	mg/L	0.05000	0.00059	108	70-130			
Silver	0.040	0.00050	mg/L	0.05000	0.00011	80	70-130			
Thallium	0.050	0.00050	mg/L	0.05000	ND	100	70-130			
Zinc	0.11	0.040	mg/L	0.1000	0.0052	109	70-130			

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2108394 - E 200.8 (5.4)</b>										
<b>Matrix Spike (2108394-MS2)</b>		<b>Source: 21H0539-01</b>			Prepared: 08/30/2021 Analyzed: 09/01/2021					
Aluminum	0.14	0.040	mg/L	0.1000	0.022	119	70-130			
Antimony	0.064	0.00050	mg/L	0.05000	0.0011	126	70-130			
Arsenic	0.065	0.00050	mg/L	0.05000	0.0021	126	70-130			
Barium	0.073	0.00050	mg/L	0.05000	0.012	123	70-130			
Beryllium	0.064	0.00025	mg/L	0.05000	ND	129	70-130			
Cadmium	0.061	0.00025	mg/L	0.05000	ND	122	70-130			
Chromium	0.060	0.00050	mg/L	0.05000	0.00033	120	70-130			
Cobalt	0.059	0.00025	mg/L	0.05000	0.000065	117	70-130			
Copper	0.10	0.00050	mg/L	0.05000	0.046	114	70-130			
Lead	0.062	0.00050	mg/L	0.05000	0.00011	123	70-130			
Manganese	0.086	0.00025	mg/L	0.05000	0.024	123	70-130			
Molybdenum	0.068	0.00025	mg/L	0.05000	0.0083	120	70-130			
Nickel	0.058	0.00050	mg/L	0.05000	0.00047	116	70-130			
Selenium	0.068	0.0025	mg/L	0.05000	0.00068	134	70-130			M1
Silver	0.048	0.00050	mg/L	0.05000	0.00012	97	70-130			
Thallium	0.061	0.00050	mg/L	0.05000	ND	122	70-130			
Zinc	0.13	0.040	mg/L	0.1000	0.0032	125	70-130			
<b>Batch 2109001 - E200.7 (4.4)</b>										
<b>Blank (2109001-BLK1)</b>		Prepared: 08/31/2021 Analyzed: 09/01/2021								
Boron	0.022	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	ND	0.20	mg/L							
Sodium	ND	5.0	mg/L							
<b>LCS (2109001-BS1)</b>		Prepared: 08/31/2021 Analyzed: 09/01/2021								
Boron	0.93	0.10	mg/L	1.000		93	85-115			
Calcium	10	4.0	mg/L	10.00		101	85-115			
Iron	1.0	0.30	mg/L	1.000		103	85-115			
Magnesium	9.9	3.0	mg/L	10.00		99	85-115			
Potassium	9.9	5.0	mg/L	10.00		99	85-115			
Sodium	10	5.0	mg/L	10.00		101	85-115			
<b>LCS (2109001-BS2)</b>		Prepared: 08/31/2021 Analyzed: 09/01/2021								
Silica	10	0.20	mg/L	10.00		102	85-115			
<b>LCS Dup (2109001-BSD1)</b>		Prepared: 08/31/2021 Analyzed: 09/01/2021								
Boron	0.94	0.10	mg/L	1.000		94	85-115	0.7	20	
Calcium	10	4.0	mg/L	10.00		104	85-115	3	20	
Iron	1.1	0.30	mg/L	1.000		107	85-115	4	20	
Magnesium	10	3.0	mg/L	10.00		103	85-115	3	20	
Potassium	10	5.0	mg/L	10.00		102	85-115	2	20	
Sodium	10	5.0	mg/L	10.00		104	85-115	3	20	
<b>LCS Dup (2109001-BSD2)</b>		Prepared: 08/31/2021 Analyzed: 09/01/2021								
Silica	9.3	0.20	mg/L	10.00		93	85-115	9	20	

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2109001 - E200.7 (4.4)</b>										
<b>Matrix Spike (2109001-MS1)</b>		<b>Source: 21H0589-01</b>			Prepared: 08/31/2021 Analyzed: 09/01/2021					
Boron	1.0	0.10	mg/L	1.000	0.085	92	70-130			
Calcium	62	4.0	mg/L	10.00	53	89	70-130			
Iron	1.2	0.30	mg/L	1.000	0.17	101	70-130			
Magnesium	16	3.0	mg/L	10.00	6.0	98	70-130			
Potassium	20	5.0	mg/L	10.00	11	97	70-130			
Sodium	65	5.0	mg/L	10.00	57	77	70-130			
<b>Matrix Spike (2109001-MS2)</b>		<b>Source: 21H0539-09</b>			Prepared: 08/31/2021 Analyzed: 09/01/2021					
Boron	0.97	0.10	mg/L	1.000	0.049	92	70-130			
Calcium	43	4.0	mg/L	10.00	34	95	70-130			
Iron	3.9	0.30	mg/L	1.000	2.4	150	70-130			M6
Magnesium	14	3.0	mg/L	10.00	3.3	104	70-130			
Potassium	13	5.0	mg/L	10.00	2.9	104	70-130			
Sodium	10	5.0	mg/L	10.00	ND	102	70-130			
<b>Matrix Spike (2109001-MS3)</b>		<b>Source: 21H0589-01</b>			Prepared: 08/31/2021 Analyzed: 09/01/2021					
Silica	27	0.20	mg/L	10.00	23	33	70-130			M7
<b>Matrix Spike (2109001-MS4)</b>		<b>Source: 21H0539-06</b>			Prepared: 08/31/2021 Analyzed: 09/01/2021					
Silica	24	0.20	mg/L	10.00	17	63	70-130			M7
<b>Batch 2109008 - E200.8 (5.4)</b>										
<b>Blank (2109008-BLK1)</b>				Prepared: 08/31/2021 Analyzed: 09/02/2021						
Aluminum	ND	0.040	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.000250	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	0.000021	0.00050	mg/L							
Thallium	0.00011	0.00050	mg/L							
Uranium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2109008 - E200.8 (5.4)</b>										
<b>LCS (2109008-BS1)</b>										
					Prepared: 08/31/2021 Analyzed: 09/02/2021					
Aluminum	0.11	0.040	mg/L	0.1000		106	85-115			
Antimony	0.050	0.00050	mg/L	0.05000		100	85-115			
Arsenic	0.049	0.00050	mg/L	0.05000		98	85-115			
Barium	0.052	0.00050	mg/L	0.05000		103	85-115			
Beryllium	0.049	0.00025	mg/L	0.05000		99	85-115			
Cadmium	0.049	0.00025	mg/L	0.05000		98	85-115			
Chromium	0.049	0.00050	mg/L	0.05000		99	85-115			
Cobalt	0.0480	0.000250	mg/L	0.05000		96	85-115			
Copper	0.049	0.00050	mg/L	0.05000		98	85-115			
Lead	0.049	0.00050	mg/L	0.05000		98	85-115			
Manganese	0.050	0.00025	mg/L	0.05000		99	85-115			
Molybdenum	0.050	0.00025	mg/L	0.05000		99	85-115			
Nickel	0.048	0.00050	mg/L	0.05000		96	85-115			
Selenium	0.049	0.0025	mg/L	0.05000		99	85-115			
Silver	0.043	0.00050	mg/L	0.05000		86	85-115			
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115			
Uranium	0.048	0.00050	mg/L	0.05000		96	85-115			
Zinc	0.11	0.040	mg/L	0.1000		106	85-115			

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>LCS Dup (2109008-BS1)</b>										
					Prepared: 08/31/2021 Analyzed: 09/02/2021					
Aluminum	0.10	0.040	mg/L	0.1000		104	85-115	2	20	
Antimony	0.050	0.00050	mg/L	0.05000		100	85-115	0.5	20	
Arsenic	0.050	0.00050	mg/L	0.05000		99	85-115	1	20	
Barium	0.051	0.00050	mg/L	0.05000		101	85-115	2	20	
Beryllium	0.050	0.00025	mg/L	0.05000		99	85-115	0.6	20	
Cadmium	0.049	0.00025	mg/L	0.05000		97	85-115	0.3	20	
Chromium	0.050	0.00050	mg/L	0.05000		99	85-115	0.6	20	
Cobalt	0.0483	0.000250	mg/L	0.05000		97	85-115	0.5	20	
Copper	0.049	0.00050	mg/L	0.05000		99	85-115	0.6	20	
Lead	0.049	0.00050	mg/L	0.05000		98	85-115	0.3	20	
Manganese	0.050	0.00025	mg/L	0.05000		100	85-115	1	20	
Molybdenum	0.049	0.00025	mg/L	0.05000		99	85-115	0.6	20	
Nickel	0.048	0.00050	mg/L	0.05000		96	85-115	0.5	20	
Selenium	0.050	0.0025	mg/L	0.05000		101	85-115	2	20	
Silver	0.043	0.00050	mg/L	0.05000		85	85-115	0.4	20	
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115	0.4	20	
Uranium	0.048	0.00050	mg/L	0.05000		96	85-115	0.5	20	
Zinc	0.11	0.040	mg/L	0.1000		107	85-115	0.8	20	

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2109008 - E200.8 (5.4)</b>										
<b>Matrix Spike (2109008-MS1)</b>		<b>Source: 21H0468-01RE1</b>			Prepared: 08/31/2021 Analyzed: 09/02/2021					
Aluminum	1.2	0.40	mg/L	0.1000	1.2	7	70-130			M2
Antimony	0.047	0.00050	mg/L	0.05000	0.000090	94	70-130			
Arsenic	0.049	0.00050	mg/L	0.05000	0.00083	96	70-130			
Barium	0.082	0.00050	mg/L	0.05000	0.032	99	70-130			
Beryllium	0.049	0.00025	mg/L	0.05000	0.000068	98	70-130			
Cadmium	0.047	0.00025	mg/L	0.05000	ND	94	70-130			
Chromium	0.049	0.00050	mg/L	0.05000	0.00077	95	70-130			
Cobalt	0.0467	0.000250	mg/L	0.05000	0.000133	93	70-130			
Copper	0.091	0.0050	mg/L	0.05000	0.055	73	70-130			
Lead	0.050	0.00050	mg/L	0.05000	0.00098	97	70-130			
Manganese	0.055	0.0025	mg/L	0.05000	0.0068	96	70-130			
Molybdenum	0.048	0.0025	mg/L	0.05000	0.00025	96	70-130			
Nickel	0.047	0.00050	mg/L	0.05000	0.00081	92	70-130			
Selenium	0.050	0.0025	mg/L	0.05000	0.00079	99	70-130			
Silver	0.040	0.00050	mg/L	0.05000	ND	80	70-130			
Thallium	0.048	0.00050	mg/L	0.05000	0.00041	94	70-130			
Uranium	0.050	0.00050	mg/L	0.05000	0.000079	100	70-130			
Zinc	2.0	0.40	mg/L	0.1000	2.0	20	70-130			M2
<b>Matrix Spike (2109008-MS2)</b>		<b>Source: 21H0539-05</b>			Prepared: 08/31/2021 Analyzed: 09/02/2021					
Aluminum	26	4.0	mg/L	0.1000	27	NR	70-130			M2
Antimony	0.015	0.00050	mg/L	0.05000	0.0015	27	70-130			M2
Arsenic	0.057	0.00050	mg/L	0.05000	0.015	84	70-130			
Barium	0.16	0.00050	mg/L	0.05000	0.11	99	70-130			
Beryllium	0.050	0.00025	mg/L	0.05000	0.0038	93	70-130			
Cadmium	0.047	0.00025	mg/L	0.05000	0.0037	86	70-130			
Chromium	0.069	0.0050	mg/L	0.05000	0.021	94	70-130			
Cobalt	0.0597	0.00250	mg/L	0.05000	0.0135	92	70-130			
Copper	16	0.050	mg/L	0.05000	16	NR	70-130			M2
Lead	0.20	0.00050	mg/L	0.05000	0.15	83	70-130			
Manganese	2.6	0.0025	mg/L	0.05000	2.7	NR	70-130			M2
Molybdenum	0.10	0.0025	mg/L	0.05000	0.062	77	70-130			
Nickel	0.067	0.0050	mg/L	0.05000	0.023	90	70-130			
Selenium	0.062	0.0025	mg/L	0.05000	0.021	80	70-130			
Silver	0.056	0.00050	mg/L	0.05000	0.021	70	70-130			
Thallium	0.048	0.00050	mg/L	0.05000	0.00099	93	70-130			
Uranium	0.057	0.00050	mg/L	0.05000	0.0045	105	70-130			
Zinc	1.7	0.40	mg/L	0.1000	1.7	63	70-130			M2
<b>Batch 2109010 - E245.1</b>										
<b>Blank (2109010-BLK1)</b>				Prepared & Analyzed: 09/01/2021						
Mercury	ND	0.0010	mg/L							
<b>LCS (2109010-BS1)</b>				Prepared & Analyzed: 09/01/2021						
Mercury	0.0051	0.0010	mg/L	0.005000	102	85-115				
<b>LCS Dup (2109010-BSD1)</b>				Prepared & Analyzed: 09/01/2021						
Mercury	0.0051	0.0010	mg/L	0.005000	102	85-115	0.1	20		

**Client:** Rosemont Copper Company  
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**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2109010 - E245.1</b>										
<b>Matrix Spike (2109010-MS1)</b>		<b>Source: 21H0557-01</b>		Prepared & Analyzed: 09/01/2021						
Mercury	0.0049	0.0010	mg/L	0.005000	ND	99	70-130			
<b>Matrix Spike (2109010-MS2)</b>		<b>Source: 21H0557-01</b>		Prepared & Analyzed: 09/01/2021						
Mercury	0.0051	0.0010	mg/L	0.005000	ND	101	70-130			
<b>Matrix Spike Dup (2109010-MSD1)</b>		<b>Source: 21H0557-01</b>		Prepared & Analyzed: 09/01/2021						
Mercury	0.0049	0.0010	mg/L	0.005000	ND	98	70-130	1	20	
<b>Matrix Spike Dup (2109010-MSD2)</b>		<b>Source: 21H0557-01</b>		Prepared & Analyzed: 09/01/2021						
Mercury	0.0050	0.0010	mg/L	0.005000	ND	99	70-130	2	20	
<b>Batch 2109027 - E 245.1</b>										
<b>Blank (2109027-BLK1)</b>		Prepared & Analyzed: 09/02/2021								
Mercury	0.000046	0.0010	mg/L							
<b>LCS (2109027-BS1)</b>		Prepared & Analyzed: 09/02/2021								
Mercury	0.0054	0.0010	mg/L	0.005000		108	85-115			
<b>LCS Dup (2109027-BSD1)</b>		Prepared & Analyzed: 09/02/2021								
Mercury	0.0053	0.0010	mg/L	0.005000		106	85-115	1	20	
<b>Matrix Spike (2109027-MS1)</b>		<b>Source: 21H0574-01</b>		Prepared & Analyzed: 09/02/2021						
Mercury	5.1		ug/L	5.000	0.040	101	70-130			
<b>Matrix Spike (2109027-MS2)</b>		<b>Source: 21H0706-03</b>		Prepared & Analyzed: 09/02/2021						
Mercury	5.8		ug/L	5.000	0.52	105	70-130			
<b>Matrix Spike Dup (2109027-MSD1)</b>		<b>Source: 21H0574-01</b>		Prepared & Analyzed: 09/02/2021						
Mercury	6.7		ug/L	5.000	0.040	134	70-130	28	20	M6, R13
<b>Matrix Spike Dup (2109027-MSD2)</b>		<b>Source: 21H0706-03</b>		Prepared & Analyzed: 09/02/2021						
Mercury	5.7		ug/L	5.000	0.52	104	70-130	0.4	20	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
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QC Summary

Table with columns: Analyte, Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Qual. Rows include various batches (2108246, 2108261, 2108281, 2108282, 2108309, 2108312) and analytes like Total Suspended Solids, Total Dissolved Solids, pH, Temperature, and Organic Carbon.

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
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**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2108312 - SM5310 C</b>										
<b>Matrix Spike Dup (2108312-MSD1)</b>		<b>Source: 21H0469-01</b>			Prepared & Analyzed: 08/24/2021					
Organic Carbon, Total	11	0.50	mg/L	10.00	1.6	98	80-120	0.5	15	
<b>Batch 2108313 - SM4500-SiO2 C</b>										
<b>Blank (2108313-BLK1)</b>		Prepared & Analyzed: 08/23/2021								
Silica	ND	2.0	mg/L							
<b>LCS (2108313-BS1)</b>		Prepared & Analyzed: 08/23/2021								
Silica	7.5	2.0	mg/L	8.000		93	90-110			
<b>LCS Dup (2108313-BSD1)</b>		Prepared & Analyzed: 08/23/2021								
Silica	7.3	2.0	mg/L	8.000		91	90-110	2	20	
<b>Matrix Spike (2108313-MS1)</b>		<b>Source: 21H0458-02</b>			Prepared & Analyzed: 08/23/2021					
Silica	52	10	mg/L	40.00	22	74	85-115			M2
<b>Matrix Spike Dup (2108313-MSD1)</b>		<b>Source: 21H0458-02</b>			Prepared & Analyzed: 08/23/2021					
Silica	51	10	mg/L	40.00	22	71	85-115	2	20	M2
<b>Batch 2108327 - SM2320B</b>										
<b>Blank (2108327-BLK1)</b>		Prepared & Analyzed: 08/24/2021								
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Carbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Hydroxide (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
<b>LCS (2108327-BS1)</b>		Prepared & Analyzed: 08/24/2021								
Alkalinity, Total (As CaCO3)	250	2.0	mg/L	250.0		98	90-110			
<b>LCS Dup (2108327-BSD1)</b>		Prepared & Analyzed: 08/24/2021								
Alkalinity, Total (As CaCO3)	250	2.0	mg/L	250.0		100	90-110	2	10	
<b>Matrix Spike (2108327-MS1)</b>		<b>Source: 21H0539-03</b>			Prepared & Analyzed: 08/24/2021					
Alkalinity, Total (As CaCO3)	310	2.0	mg/L	250.0	76	94	70-130			
<b>Matrix Spike Dup (2108327-MSD1)</b>		<b>Source: 21H0539-03</b>			Prepared & Analyzed: 08/24/2021					
Alkalinity, Total (As CaCO3)	330	2.0	mg/L	250.0	76	102	70-130	6	10	
<b>Batch 2108334 - E180.1</b>										
<b>Duplicate (2108334-DUP1)</b>		<b>Source: 21H0585-01</b>			Prepared & Analyzed: 08/24/2021					
Turbidity	1.0	0.10	NTU		1.1			10	10	
<b>Batch 2108341 - SM4500-NH3 B,C</b>										
<b>Blank (2108341-BLK1)</b>		Prepared & Analyzed: 08/25/2021								
Nitrogen, Ammonia (As N)	ND	0.50	mg/L							
<b>LCS (2108341-BS1)</b>		Prepared & Analyzed: 08/25/2021								
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000		100	90-110			

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2108341 - SM4500-NH3 B,C</b>										
<b>LCS Dup (2108341-BSD1)</b>				Prepared & Analyzed: 08/25/2021						
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000		101	90-110	0.9	10	
<b>Matrix Spike (2108341-MS1)</b>				Source: 21H0470-04		Prepared & Analyzed: 08/25/2021				
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000	0.25	96	75-120			
<b>Matrix Spike (2108341-MS2)</b>				Source: 21H0501-01		Prepared & Analyzed: 08/25/2021				
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000	0.20	94	75-120			
<b>Matrix Spike Dup (2108341-MSD1)</b>				Source: 21H0470-04		Prepared & Analyzed: 08/25/2021				
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000	0.25	97	75-120	0.9	20	
<b>Matrix Spike Dup (2108341-MSD2)</b>				Source: 21H0501-01		Prepared & Analyzed: 08/25/2021				
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000	0.20	97	75-120	4	20	
<b>Batch 2108347 - SM2540 C</b>										
<b>Duplicate (2108347-DUP1)</b>				Source: 21H0606-03		Prepared: 08/26/2021 Analyzed: 08/31/2021				
Total Dissolved Solids (Residue, Filterable)	830	20	mg/L		830			0	5	
<b>Duplicate (2108347-DUP2)</b>				Source: 21H0613-01		Prepared: 08/26/2021 Analyzed: 08/30/2021				
Total Dissolved Solids (Residue, Filterable)	290	20	mg/L		300			4	5	
<b>Duplicate (2108347-DUP3)</b>				Source: 21H0695-01		Prepared: 08/26/2021 Analyzed: 08/30/2021				
Total Dissolved Solids (Residue, Filterable)	260	20	mg/L		260			3	5	
<b>Batch 2108354 - SM2510 B</b>										
<b>LCS (2108354-BS1)</b>				Prepared & Analyzed: 08/25/2021						
Conductivity	140	0.10	µmhos/cm	141.2		101	0-200			
<b>LCS Dup (2108354-BSD1)</b>				Prepared & Analyzed: 08/25/2021						
Conductivity	150	0.10	µmhos/cm	141.2		106	0-200	5	200	
<b>Duplicate (2108354-DUP1)</b>				Source: 21H0538-01		Prepared & Analyzed: 08/25/2021				
Conductivity	4800	2.5	µmhos/cm		4800			1	10	
<b>Duplicate (2108354-DUP2)</b>				Source: 21H0574-05		Prepared & Analyzed: 08/25/2021				
Conductivity	220	0.10	µmhos/cm		210			4	10	
<b>Batch 2108355 - E180.1</b>										
<b>Duplicate (2108355-DUP1)</b>				Source: 21H0574-05		Prepared & Analyzed: 08/25/2021				
Turbidity	1000	10	NTU		930			7	10	
<b>Batch 2108375 - SW9045D</b>										
<b>Duplicate (2108375-DUP1)</b>				Source: 21H0539-15		Prepared & Analyzed: 08/26/2021				
pH (pH Units)	6.7		-		6.7			0.1	200	H5
Temperature (°C)	19		-		19			1	200	H5

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2108375 - SW9045D</b>										
<b>Duplicate (2108375-DUP2)</b>			<b>Source: 21H0677-01</b>		Prepared & Analyzed: 08/26/2021					
pH (pH Units)	10		-		10			0.5	200	H5
Temperature (°C)	21		-		21			3	200	H5
<b>Batch 2108378 - PAI-DK01</b>										
<b>Blank (2108378-BLK1)</b>			Prepared: 08/26/2021 Analyzed: 08/27/2021							
Nitrogen, Total Kjeldahl	ND	0.50	mg/L							
<b>LCS (2108378-BS1)</b>			Prepared: 08/26/2021 Analyzed: 08/27/2021							
Nitrogen, Total Kjeldahl	4.8	0.50	mg/L	5.000		96	80-120			
<b>LCS Dup (2108378-BSD1)</b>			Prepared: 08/26/2021 Analyzed: 08/27/2021							
Nitrogen, Total Kjeldahl	4.9	0.50	mg/L	5.000		97	80-120	2	20	
<b>Matrix Spike (2108378-MS1)</b>			<b>Source: 21H0480-02</b>		Prepared: 08/26/2021 Analyzed: 08/27/2021					
Nitrogen, Total Kjeldahl	7.2	0.50	mg/L	5.000	1.5	114	80-120			
<b>Matrix Spike (2108378-MS2)</b>			<b>Source: 21H0567-01</b>		Prepared: 08/26/2021 Analyzed: 08/27/2021					
Nitrogen, Total Kjeldahl	130	50	mg/L	50.00	ND	263	80-120			M1
<b>Matrix Spike Dup (2108378-MSD1)</b>			<b>Source: 21H0480-02</b>		Prepared: 08/26/2021 Analyzed: 08/27/2021					
Nitrogen, Total Kjeldahl	6.7	0.50	mg/L	5.000	1.5	103	80-120	8	20	
<b>Matrix Spike Dup (2108378-MSD2)</b>			<b>Source: 21H0567-01</b>		Prepared: 08/26/2021 Analyzed: 08/27/2021					
Nitrogen, Total Kjeldahl	130	50	mg/L	50.00	ND	267	80-120	2	20	M1
<b>Batch 2108402 - SM2320B</b>										
<b>Blank (2108402-BLK1)</b>			Prepared & Analyzed: 08/30/2021							
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Carbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Hydroxide (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
<b>LCS (2108402-BS1)</b>			Prepared & Analyzed: 08/30/2021							
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		97	90-110			
<b>LCS Dup (2108402-BSD1)</b>			Prepared & Analyzed: 08/30/2021							
Alkalinity, Total (As CaCO3)	250	2.0	mg/L	250.0		101	90-110	4	10	
<b>Matrix Spike (2108402-MS1)</b>			<b>Source: 21H0574-04</b>		Prepared & Analyzed: 08/30/2021					
Alkalinity, Total (As CaCO3)	400	2.0	mg/L	250.0	150	101	70-130			
<b>Matrix Spike Dup (2108402-MSD1)</b>			<b>Source: 21H0574-04</b>		Prepared & Analyzed: 08/30/2021					
Alkalinity, Total (As CaCO3)	400	2.0	mg/L	250.0	150	100	70-130	0.5	10	
<b>Batch 2109002 - SM4500-SiO2 C</b>										
<b>Blank (2109002-BLK1)</b>			Prepared & Analyzed: 08/31/2021							
Silica	ND	2.0	mg/L							

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2109002 - SM4500-SiO2 C</b>										
<b>LCS (2109002-BS1)</b>				Prepared & Analyzed: 08/31/2021						
Silica	8.3	2.0	mg/L	8.000		104	90-110			
<b>LCS Dup (2109002-BSD1)</b>				Prepared & Analyzed: 08/31/2021						
Silica	8.3	2.0	mg/L	8.000		103	90-110	0.4	20	
<b>Matrix Spike (2109002-MS1)</b>		<b>Source: 21H0539-04</b>		Prepared & Analyzed: 08/31/2021						
Silica	72	10	mg/L	40.00	26	114	85-115			
<b>Matrix Spike Dup (2109002-MSD1)</b>		<b>Source: 21H0539-04</b>		Prepared & Analyzed: 08/31/2021						
Silica	71	10	mg/L	40.00	26	113	85-115	0.9	20	
<b>Batch 2109032 - SM2510 B</b>										
<b>LCS (2109032-BS1)</b>				Prepared & Analyzed: 09/02/2021						
Conductivity	150	0.10	µmhos/cm	141.2		106	0-200			
<b>LCS Dup (2109032-BSD1)</b>				Prepared & Analyzed: 09/02/2021						
Conductivity	150	0.10	µmhos/cm	141.2		109	0-200	3	200	
<b>Duplicate (2109032-DUP1)</b>		<b>Source: 21H0539-10</b>		Prepared & Analyzed: 09/02/2021						
Conductivity	150	0.10	µmhos/cm		150			0.7	10	
<b>Duplicate (2109032-DUP2)</b>		<b>Source: 21H0740-01</b>		Prepared & Analyzed: 09/02/2021						
Conductivity	550	0.10	µmhos/cm		550			0.2	10	

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

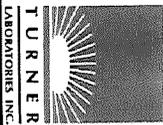
**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2108284 - E300.0 (2.1)</b>										
<b>Blank (2108284-BLK1)</b> Prepared & Analyzed: 08/19/2021										
Chloride	ND	1.0	mg/L							
Fluoride	ND	0.50	mg/L							
Nitrogen, Nitrate (As N)	ND	0.50	mg/L							
Nitrogen, Nitrite (As N)	ND	0.10	mg/L							
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	mg/L							
Sulfate	ND	5.0	mg/L							
<b>LCS (2108284-BS1)</b> Prepared & Analyzed: 08/19/2021										
Chloride	13	1.0	mg/L	12.50		101	90-110			
Fluoride	2.1	0.50	mg/L	2.000		107	90-110			
Nitrogen, Nitrate (As N)	5.1	0.50	mg/L	5.000		103	90-110			
Nitrogen, Nitrite (As N)	2.6	0.10	mg/L	2.500		105	90-110			
Phosphorus, Dissolved Orthophosphate (As P)	2.6	0.50	mg/L	2.500		105	90-110			
Sulfate	14	5.0	mg/L	12.50		108	90-110			
<b>LCS Dup (2108284-BSD1)</b> Prepared & Analyzed: 08/19/2021										
Chloride	13	1.0	mg/L	12.50		101	90-110	0.01	10	
Fluoride	2.1	0.50	mg/L	2.000		106	90-110	0.7	10	
Nitrogen, Nitrate (As N)	5.1	0.50	mg/L	5.000		102	90-110	0.2	10	
Nitrogen, Nitrite (As N)	2.6	0.10	mg/L	2.500		105	90-110	0.06	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500		109	90-110	3	10	
Sulfate	13	5.0	mg/L	12.50		108	90-110	0.6	10	
<b>Matrix Spike (2108284-MS1)</b> Source: 21H0539-01 Prepared: 08/20/2021 Analyzed: 08/27/2021										
Chloride	13	1.0	mg/L	12.50	1.0	99	80-120			
Fluoride	1.8	0.50	mg/L	2.000	ND	88	80-120			
Nitrogen, Nitrate (As N)	6.0	0.50	mg/L	5.000	0.65	107	80-120			
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500	0.064	99	80-120			
Phosphorus, Dissolved Orthophosphate (As P)	2.8	0.50	mg/L	2.500	0.60	87	80-120			
Sulfate	15	5.0	mg/L	12.50	4.6	83	80-120			
<b>Matrix Spike (2108284-MS2)</b> Source: 21H0539-09 Prepared: 08/20/2021 Analyzed: 08/27/2021										
Chloride	13	1.0	mg/L	12.50	0.99	96	80-120			
Fluoride	1.5	0.50	mg/L	2.000	ND	77	80-120			M2
Nitrogen, Nitrate (As N)	5.5	0.50	mg/L	5.000	0.39	102	80-120			
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500	0.076	95	80-120			
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500	0.54	88	80-120			
Sulfate	14	5.0	mg/L	12.50	4.7	76	80-120			M2
<b>Matrix Spike (2108284-MS3)</b> Source: 21H0539-10 Prepared: 08/20/2021 Analyzed: 08/27/2021										
Fluoride	1.6	0.50	mg/L	2.000	ND	80	80-120			
Nitrogen, Nitrate (As N)	5.6	0.50	mg/L	5.000	0.46	103	80-120			

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21H0539  
**Date Received:** 08/18/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2108284 - E300.0 (2.1)</b>										
<b>Matrix Spike Dup (2108284-MSD1)</b>										
<b>Source: 21H0539-01</b>			<b>Prepared: 08/20/2021 Analyzed: 08/27/2021</b>							
Chloride	13	1.0	mg/L	12.50	1.0	97	80-120	2	10	
Fluoride	1.7	0.50	mg/L	2.000	ND	87	80-120	1	10	
Nitrogen, Nitrate (As N)	5.9	0.50	mg/L	5.000	0.65	105	80-120	1	10	
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500	0.064	98	80-120	1	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.8	0.50	mg/L	2.500	0.60	88	80-120	0.8	10	
Sulfate	14	5.0	mg/L	12.50	4.6	76	80-120	6	10	M2
<b>Matrix Spike Dup (2108284-MSD2)</b>										
<b>Source: 21H0539-09</b>			<b>Prepared: 08/20/2021 Analyzed: 08/27/2021</b>							
Chloride	13	1.0	mg/L	12.50	0.99	96	80-120	0.2	10	
Fluoride	1.6	0.50	mg/L	2.000	ND	78	80-120	2	10	M2
Nitrogen, Nitrate (As N)	5.5	0.50	mg/L	5.000	0.39	103	80-120	0.05	10	
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500	0.076	96	80-120	0.2	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.8	0.50	mg/L	2.500	0.54	90	80-120	2	10	
Sulfate	14	5.0	mg/L	12.50	4.7	77	80-120	1	10	M2
<b>Matrix Spike Dup (2108284-MSD3)</b>										
<b>Source: 21H0539-10</b>			<b>Prepared: 08/20/2021 Analyzed: 08/27/2021</b>							
Fluoride	1.6	0.50	mg/L	2.000	ND	82	80-120	1	10	
Nitrogen, Nitrate (As N)	5.7	0.50	mg/L	5.000	0.46	104	80-120	0.9	10	



2445 N. Coyote Drive, Suite 104  
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**CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM**

TURNER WORK ORDER # 21H0539 DATE 8/18/21 PAGE 1 OF 2

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

PROJECT NAME: Storrmwater #           
 CONTACT NAME: Andy Marnick  
 COMPANY NAME: Rosemont Copper  
 ADDRESS: 5955 E Williams Cr Ste 104S  
 CITY: Tucson STATE: AZ ZIP CODE: 85711  
 PHONE: (520) 400-0085 FAX:           
 SAMPLER'S SIGNATURE: Andy Marnick

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*
DUB1A-081321	8/13/21	19:59		STW
DUB1B-081321				
TB2-081321				
TB1-081321				
TB3-081321				
TA1-081321				
TA2-081321				
TA3-081321				
D4-081621	8/16/21	21:07		

TURNAROUND REQUIREMENTS:	NUMBER OF CONTAINERS									
	1	2	3	4	5	6	7	8	9	10
Standard (approx. 10 days)*				4						
Next day										
2 Day										
5 Day*										
* Working Days										
REPORT REQUIREMENTS:	see attached sheet									
I. Routine Report										
II. Report (includes DUP, MS, MSD, as required, may be charged as samples)										
III. Date Validation Report (includes All Raw Data)										
Add 10% to invoice										

1. RELINQUISHED BY: Andy Marnick  
 Signature: [Signature]  
 Printed Name: Rosemont  
 Firm: Rosemont  
 Date/Time: 8/18/21 10:28

2. RECEIVED BY: Andy Marnick  
 Signature: [Signature]  
 Printed Name: Rosemont  
 Firm: Rosemont  
 Date/Time: 8/18/21 10:28

3. RELINQUISHED BY: [Signature]  
 Signature: [Signature]  
 Printed Name: Rosemont  
 Firm: Rosemont  
 Date/Time: 8/18/21 10:28

4. RECEIVED BY: [Signature]  
 Signature: [Signature]  
 Printed Name: Rosemont  
 Firm: Rosemont  
 Date/Time: 8/18/21 10:28

**\* LEGEND**  
 DW = DRINKING WATER  
 GW = GROUNDWATER  
 SD = SOLID  
 SG = SLUDGE  
 SL = SOIL  
 ST = STORMWATER  
 WW = WASTEWATER

REPORT REQUIREMENTS:  
 I. Routine Report  Yes  No  
 II. Report (includes DUP, MS, MSD, as required, may be charged as samples)  Yes  No  
 III. Date Validation Report (includes All Raw Data)  Yes  No  
 Add 10% to invoice  Yes  No

INVOICE INFORMATION:  
 Account          Y          N  
 P.O. #           
 Bill to:         

SPECIAL INSTRUCTIONS/COMMENTS:  
 Compliance Analysis:  Yes  No  
 ADEQ Forms:  Yes  No  
 Mail ADEQ Forms:  Yes  No

COC/Labels Agree    
 Received Within Hold Time

Preservation Confirmation    
 Appropriate Head Space    
 Wet Ice  Blue Ice



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**CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM**

TURNER WORK ORDER # 21H0539 DATE 8/18/21 PAGE 12 OF 12

PROJECT NAME Stormwater # \_\_\_\_\_

CONTACT NAME : David Krizek

COMPANY NAME : Hudbay Minerals/ Rosemont Copper Company

ADDRESS : 5255 E Williams Circle, Suite 1065

CITY Tucson STATE AZ ZIP CODE 85711

PHONE 520-495-3527 FAX \_\_\_\_\_

SAMPLER'S SIGNATURE \_\_\_\_\_

SAMPLE I.D. DATE TIME LAB I.D. SAMPLE MATRIX\*

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*
D2-081621	8/16/21	2124		SW
D5-081621				
A5-081621				
B5-081621				
D11-081621				
D13-081621				
D15-081621				

NUMBER OF CONTAINERS	CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX	
	Yes	No
See Attached TOC	<input checked="" type="checkbox"/>	<input type="checkbox"/>

TURNAROUND REQUIREMENTS:	Standard (approx. 10 days)*	Next day 2 Day	5 Day*

1. RELINQUISHED BY: Signature [Signature]  
Printed Name Andy Wainick  
Firm Rosemont  
Date/Time 8/18/21 1628

2. RECEIVED BY: Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Firm \_\_\_\_\_  
Date/Time \_\_\_\_\_

3. RELINQUISHED BY: Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Firm \_\_\_\_\_  
Date/Time \_\_\_\_\_

4. RECEIVED BY: Signature [Signature]  
Printed Name Terence Maddy  
Firm TURNER LABORATORIES, INC.  
Date/Time 8/18/21 1628

\*LEGEND  
DW = DRINKING WATER  
GW = GROUNDWATER  
SD = SOLID  
SG = SLUDGE  
SL = SOIL  
ST = STORMWATER  
WW = WASTEWATER

REPORT REQUIREMENTS:  
I. Routine Report  
II. Report (includes DUP, MS, MSD, as required, may be charged as samples)  
III. Date Validation Report (includes All Raw Data)  
Add 10% to invoice

INVOICE INFORMATION:  
Account Y N  
P.O. # \_\_\_\_\_  
Bill to: \_\_\_\_\_

SAMPLE RECEIPT:  
Total Containers 16  
Temperature 4.7  
 Wet Ice  Blue Ice

SPECIAL INSTRUCTIONS/COMMENTS:  
Compliance Analysis:  Yes  No  
Custody Seals  Yes  No  
ADEQ Forms:  Yes  No  
Container Intact  Yes  No  
Mail ADEQ Forms:  Yes  No  
COC/Labels Agree  Yes  No  
Received Within Hold Time  Yes  No  
Preservation Confirmation  Yes  No  
Appropriate Head Space  Yes  No

Stormwater Monitoring – Existing Conditions – Lab Sheet

July 1, 2021

Stormwater Monitoring – Existing Conditions

Frequency: As needed when sampled and when sufficient storm flows occur in washes (Field Parameters)						
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds		
<b>General Measurements</b>						
Temperature – field	° C (Celsius)	Oakton PC 450 Meter/Oakton pH Con 10 Meter	NA	NA		
pH – field	S.U.	Oakton PC 450 Meter/Oakton pH Con 10 Meter	NA	NA		
Conductivity – field	µS/cm	Oakton PC 450 Meter/Oakton pH Con 10 Meter	NA	NA		

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Stormwater Monitoring – Existing Conditions – Lab Sheet

July 1, 2021

Stormwater Monitoring – Existing Conditions (continued)

Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)					
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds	
<b>General Measurements, General Chemistry</b>					
Temperature – lab	° C	SM 4500 H+B	NA	NA	
pH – lab	S.U.	SM 4500 H+B	NA	NA	
Conductivity – lab	µS/cm	SW-846 9050A	2.0	NA	
Total dissolved solids	mg/L	SM 2540 C	20	NA	
Total suspended solids	mg/L	SM 2540 D	10	NA	
Turbidity	NTU	EPA 180.1	1.0	NA	
Hardness <sup>1</sup>	mg/L	SM 2340B/ calculation	13.0	NA	
Cation/Anion Balance	%	calculation	NA	NA	
Total alkalinity	mg/L	SM 2320 B	4.0	NA	
Bicarbonate	mg/L	SM 2320 B	4.0	NA	
Carbonate	mg/L	SM 2320 B	4.0	NA	
Hydroxide	mg/L	SM 2320 B	4.0	NA	
Sulfate	mg/L	EPA 300.0	0.50	NA	
Chloride	mg/L	EPA 300.0	0.5	NA	
Fluoride	mg/L	EPA 300.0	0.50	NA	
Nitrate (as nitrogen [N])	mg/L	EPA 300.0	0.10	NA	
Nitrite (as N)	mg/L	EPA 300.0	0.10	NA	
Nitrate + Nitrite (as N)	mg/L	EPA 300.0/ calculation	0.10	NA	
Total Nitrogen	mg/L	Total Nitrogen/ calculation	NA	NA	
Total Kjeldahl Nitrogen	mg/L	EPA 351.2	0.50	NA	
Calcium <sup>1</sup>	mg/L	EPA 200.7	2.0	NA	

Stormwater Monitoring – Existing Conditions – Lab Sheet

July 1, 2021

Stormwater Monitoring – Existing Conditions (continued)						
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds		
<b>General Measurements, General Chemistry (continued)</b>						
Magnesium <sup>1</sup>	mg/L	EPA 200.7	2.0	NA		
Sodium <sup>1</sup>	mg/L	EPA 200.7	0.5	NA		
Potassium <sup>1</sup>	mg/L	EPA 200.7	0.5	NA		
Ammonia (as N)	mg/L	SM 4500	0.5	NA		
Orthophosphate (as P)	mg/L	EPA 300.0	0.1	NA		
Silicon Dioxide <sup>1</sup>	mg/L	EPA 200.7	0.214	NA		
<b>Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)</b>						
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds		
<b>Dissolved Metals</b>						
Aluminum	mg/L	EPA 200.7	0.1	NA		
Antimony	mg/L	EPA 200.8	0.001	NA		
Arsenic	mg/L	EPA 200.8	0.0005	NA		
Barium	mg/l	EPA 200.7	0.01	NA		
Beryllium	mg/L	EPA 200.7	0.001	NA		
Boron	mg/L	EPA 200.7	0.05	NA		
Cadmium	mg/L	EPA 200.7	0.001	NA		
Chromium – total <sup>2</sup>	mg/L	EPA 200.7	0.01	NA		
Cobalt	mg/l	EPA 200.7	0.01	NA		
Copper	mg/L	EPA 200.7	0.01	NA		
Lead	mg/L	EPA 200.8	0.0005	NA		

Stormwater Monitoring – Existing Conditions – Lab Sheet

July 1, 2021

Stormwater Monitoring – Existing Conditions (continued)						
Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)						
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds		
<b>Dissolved Metals (continued)</b>						
Manganese	mg/l	EPA 200.7	0.01	NA		
Mercury	mg/L	EPA 245.1	0.0002	NA		
Molybdenum	mg/l	EPA 200.7	0.01	NA		
Nickel	mg/L	EPA 200.7	0.01	NA		
Selenium	mg/L	EPA 200.8	0.0005	NA		
Silver	mg/L	EPA 200.8	0.0001	NA		
Thallium	mg/L	EPA 200.8	0.0001	NA		
Zinc	mg/L	EPA 200.8	0.013	NA		
Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)						
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds		
<b>Total Recoverable Metals</b>						
Aluminum	mg/L	EPA 200.7	0.1	NA		
Antimony	mg/L	EPA 200.8	0.001	NA		
Arsenic	mg/L	EPA 200.8	0.0005	NA		
Barium	mg/l	EPA 200.7	0.01	NA		
Beryllium	mg/L	EPA 200.7	0.001	NA		
Boron	mg/L	EPA 200.7	0.05	NA		
Cadmium	mg/L	EPA 200.7	0.001	NA		
Chromium - total <sup>2</sup>	mg/L	EPA 200.7	0.01	NA		

Stormwater Monitoring – Existing Conditions – Lab Sheet

July 1, 2021

Stormwater Monitoring – Existing Conditions (continued)

Stormwater Monitoring – Existing Conditions (continued)					
Frequency: As needed when sampled whenever sufficient storm flows occur in washes (Laboratory Parameters)					
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds	
<b>Total Recoverable Metals (continued)</b>					
Cobalt	mg/l	EPA 200.7	0.01	NA	
Copper	mg/L	EPA 200.7	0.01	NA	
Iron	mg/L	EPA 200.7	0.1	NA	
Lead	mg/L	EPA 200.8	0.0005	NA	
Manganese	mg/L	EPA 200.7	0.01	NA	
Mercury	mg/L	EPA 245.1	0.0002	NA	
Molybdenum	mg/l	EPA 200.7	0.01	NA	
Nickel	mg/L	EPA 200.7	0.01	NA	
Selenium	mg/L	EPA 200.8	0.0005	NA	
Silver	mg/L	EPA 200.8	0.0001	NA	
Thallium	mg/L	EPA 200.8	0.0001	NA	
Uranium	mg/L	EPA 200.8	0.0001	NA	
Zinc	mg/L	EPA 200.8	0.013	NA	

Units: S.U. = standard units

µS/cm = micro Siemens per centimeter

mg/L = milligrams per liter

µg/L = micrograms per liter

NA = not applicable

NNS = no numeric standard

<sup>1</sup>: Parameter to be analyzed as both dissolved and total.

<sup>2</sup> : Stormwater samples will be analyzed for total Chromium but the results will be compared to Chromium III (since there is currently no lab method for Cr III). Numeric standard listed in Table B-1 is for Chromium III.